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Product Specifications Reference



Version 487, April 2016

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Product Specifications Reference



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ThinkPad® Laptops

Including:

- L Series
- T Series
- W Series
- P Series
- 11e Series
- 13 Series
- X Series
- E Series

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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

April 6, 2016 - Version 487

Additions in this update

►**New product(s)**
None

►**New model(s)**
ThinkPad L560 new models announced April 2016
ThinkPad T460p new models announced April 2016
ThinkPad T460s new models announced April 2016
ThinkPad T560 new models announced April 2016
ThinkPad 13 new models announced April 2016
ThinkPad X260 new models announced April 2016
ThinkPad E460 new models announced April 2016
ThinkPad E560 new models announced April 2016

►**Others**
None

Changes in this update

►**None**

Withdrawals in this update

►**Withdrawn product(s)**
None



Lenovo® ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440

ThinkPad L440 Platform Specifications

Positioning
Mainstream value performance; two spindles

Processor
Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 2950M	2	2	2 GHz	-	2MB	DDR3L-1600	Intel HD Graphics
i3-4000M		4	2.4 GHz	-	3MB		Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4702MQ	4	8	2.2 GHz	3.2 GHz	6MB		
i7-4712MQ			2.3 GHz	3.3 GHz	6MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical
DVD burner, 9.5mm high, fixed, not removable, tray-in

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4600 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports dual independent display;
Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Weight	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type
Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr
Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr

AC adapter
65-watt AC adapter

Chipset
Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*
One slot (ExpressCard/34, ExpressCard/54)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD
- Cyberlink Power2Go
- Cyberlink PowerProducer

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant

ThinkPad L440 20AT (TopSeller)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AT0042US	Cel 2950M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	EM7355	Select	None	Exp/54	720p	None	6(56wh)	65W	Win8.1 DG Win7	1-depot	No	03/14
20AT0043US	Cel 2950M	No	HD 4600	HM86	2GBx1	14" HD	500G 7200	11b/g/n+BT	EM7355	Select	None	Exp/54	720p	None	6(56wh)	65W	Win8.1 DG Win7	1-depot	No	03/14
20AT001YUS	i3-4000M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AT0020US	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AT0021US	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AT002AUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AT002MUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AT002NUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	9	65W	Win8 DG Win7	1-depot	No	11/13
20AT002SUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AT002XUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AT0027US	i7-4702MQ	No	HD 4600	HM86	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AT0028US	i7-4702MQ	No	HD 4600	HM86	4GBx1	14" HD+	1T 5400	7260 ac+BT	16GB	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AT0029US	i7-4702MQ	No	HD 4600	HM86	4GBx1	14" HD+	256G SSD Opal	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AT002BUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT002CUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT002DUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002EUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	180G SSD Opal	6235 a/b/g/n+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	10/13
20AT002FUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	180G SSD Opal	6235 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	10/13

- *For detailed platform specifications, please see ThinkPad L440 Platform Specifications sheet*

Processor

Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600
i3-4000M		2.4 GHz	-	3MB	
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage

DVD burner, 9.5mm high, fixed, not removable, tray-in
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 500:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 500:1 contrast ratio

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor

Dimensions[3]

14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Weight	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type

Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr
Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr

AC adapter

65-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*

One slot (ExpressCard/34, ExpressCard/54)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

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ThinkPad L440 20AT (TopSeller) - II

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AT002JUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	1T 5400	7260 ac+BT	16GB	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002KUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002LUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002PUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	EM7355	Select	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT002QUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	180G SSD Opal	6235 a/b/g/n+BT	EM7355	Select	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	10/13
20AT002RUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	EM7355	Select	Smart	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002TUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT002UUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AT002VUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD+	180G SSD Opal	6235 a/b/g/n+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	10/13
20AT002WUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD+	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT0051US	i5-4210M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	1-depot	No	03/15
20AT0052US	i3-4100M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	1-depot	No	03/15
20AT0053US	i5-4210M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8.1 DG Win7	1-depot	No	03/15
20AT002GUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AT002HUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13

- *For detailed platform specifications, please see ThinkPad L440 Platform Specifications sheet*

Processor

Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600
i3-4000M		2.4 GHz	-	3MB	
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage

DVD burner, 9.5mm high, fixed, not removable, tray-in
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 500:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 500:1 contrast ratio

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor

Dimensions[3] Weight[2]

14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Weight	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type

Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr
Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr

AC adapter

65-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*

One slot (ExpressCard/34, ExpressCard/54)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ Ethernet

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

ThinkPad L440 20AT (TopSeller) - III

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AT005WUS	i3-4100M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win10 DG Win7	1-depot	No	08/15
20AT005XUS	i5-4210M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	1-depot	No	08/15
20AT005YUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	1-depot	No	08/15
20AT0060US	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	1-depot	No	08/15
20AT0061US	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	3-depot	No	08/15
20AT0062US	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD+	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win10 DG Win7	3-depot	No	08/15
20AT0063US	i7-4712MQ	No	HD 4600	HM86	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad L440 Platform Specifications sheet*

Processor

Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600
i3-4000M		2.4 GHz	-	3MB	
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 500:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 500:1 contrast ratio

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor

Dimensions[3]

14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Weight	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type

Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr
Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr

AC adapter

65-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*

One slot (ExpressCard/34, ExpressCard/54)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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Lenovo® ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450

ThinkPad L450 Platform Specifications

Processor

Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3205U	2	2	1.5 GHz	-	2MB	DDR3L-1600	Intel HD Graphics
i5-4300U		4	1.9 GHz	2.9 GHz	3MB		Intel HD Graphics 4400
i3-5005U			2 GHz	-	3MB		Intel HD Graphics 5500
i5-5200U			2.2 GHz	2.7 GHz	3MB		
i5-5300U			2.3 GHz	2.9 GHz	3MB		

Graphics

Intel HD Graphics or Intel HD Graphics 4400 / 5500 in processor only, or supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

M.2 Solid State Drive (SSD), via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Weight	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Battery type

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell 23Wh*	*6-cell 48Wh*	*6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16 hr

AC adapter

45W AC adapter or 65W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo Settings
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad L450 20DT (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DT000WUS	i3-5005U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000QUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000RUS	i5-5200U	No	HD 5500	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000TUS	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0010US	i5-5200U	No	HD 5500	4GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000SUS	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DT000YUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DT001AUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	02/15
20DT001BUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	02/15
20DT001CUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	02/15
20DT001DUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	02/15
20DT001KUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	3-depot	No	08/15
20DT001PUS	i3-5005U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001QUS	i5-5200U	No	HD 5500	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	3-depot	No	08/15
20DT001SUS	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	3-depot	No	08/15
20DT001VUS	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001WUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad L450 Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i3-5005U		2 GHz	-	3MB	
i5-5200U		2.2 GHz	2.7 GHz	3MB	
i5-5300U		2.3 GHz	2.9 GHz	3MB	

Graphics: Intel HD Graphics 4400 or 5500 in processor

Chipset: Intel SoC (System on Chip) platform

Memory: 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display: *Some:* 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS

Multi-touch: None

Storage: *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*: M.2 Solid State Drive (SSD), via M.2 card slot

Optical: None

Ethernet: Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]: *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*: *Upg:* Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*: AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]: *14.0" (WxDxH):* 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Weight	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg

Case material: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader: *Optional:* Smart card reader

Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports: Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)*: HD720p resolution, low light sensitive, fixed focus

Audio support: HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard: 6-row, spill-resistant, multimedia Fn keys

UltraNav™: TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*: Intel vPro Technology

Fingerprint reader: *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Battery type: Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell 23Wh*	*6-cell 48Wh*	*6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16 hr

AC adapter: 45W AC adapter or 65W AC adapter

Preload: *Win8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]: 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad L460



Lenovo ThinkPad L460



Lenovo ThinkPad L460



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Lenovo ThinkPad L460

ThinkPad L460 Platform Specifications

Processor

Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510
i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		

Graphics

Intel HD Graphics 510 or 520 in processor only, or
Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 or 700:1 contrast ratio, 170° viewing angle

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model:
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg
discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the keyboard bezel

Battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] **(*MobileMark® 2014*)**

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Max battery life	6.93 hr	12.7 hr	20.53 hr

AC adapter

45W or 65W AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad L460 20FU (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU0015US	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU0025US	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU0014US	i5-6200U	No	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	3-depot	No	01/16
20FU0017US	i3-6100U	No	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU001DUS	i5-6200U	No	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU001HUS	i3-6100U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU0026US	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU0028US	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	3-depot	No	02/16
20FU002AUS	i5-6200U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 DG Win7	1-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad L460 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	

Graphics — Intel HD Graphics 510 or 520 in processor only, or
Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg
discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Max battery life	6.93 hr	12.7 hr	20.53 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad L460 20FU (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU001CUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU0024US	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU0018US	i5-6200U	No	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU001BUS	i5-6200U	No	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	3-depot	No	01/16
20FU001EUS	i3-6100U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU001GUS	i3-6100U	No	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU0027US	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU002BUS	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 P64	3-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad L460 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	

Graphics — Intel HD Graphics 510 or 520 in processor only, or
Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg
discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] ***(MobileMark® 2014)***

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Max battery life	6.93 hr	12.7 hr	20.53 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(LR2-2) © Lenovo

ThinkPad L460 20FU (Discrete) - TopSeller (Windows 10)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU0029US	i5-6200U	No	Radeon R5	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	65W	Win10 P64	1-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad L460 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	

Graphics — Intel HD Graphics 510 or 520 in processor only, or
Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg
discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45),
Dock connector (integrated models only)

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] ***(MobileMark® 2014)***

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Max battery life	6.93 hr	12.7 hr	20.53 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540

ThinkPad L540 Platform Specifications

Positioning
Mainstream business performance; two spindles

Processor
Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 2950M	2	2	2 GHz	-	2MB	DDR3L-1600	Intel HD Graphics
i3-4000M		4	2.4 GHz	-	3MB		Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4702MQ	4	8	2.2 GHz	3.2 GHz	6MB		
i7-4712MQ			2.3 GHz	3.3 GHz	6MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage
DVD burner, 9.5mm high, fixed, not removable, tray-in
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **15.6"** (396mm) **HD (1366x768)**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4600 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports dual independent display;
Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad,
integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm
FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
HD	5.54lb / 2.52kg	5.60lb / 2.54kg	5.95lb / 2.70kg
FHD	5.68lb / 2.58kg	5.73lb / 2.60kg	6.08lb / 2.76kg

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type
Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	9 hr	11 hr	19 hr
Win8 (MobileMark 2012)	6 hr	7 hr	12 hr

AC adapter
65-watt AC adapter

Chipset
Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*
One slot (ExpressCard/34, ExpressCard/54)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the palm rest, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD
- Cyberlink Power2Go
- Cyberlink PowerProducer

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant

ThinkPad L540 20AV (TopSeller)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AV0024US	i3-4000M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AV0025US	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AV0026US	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AV002VUS	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	11b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	09/13
20AV0027US	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	None	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AV002FUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	1-depot	No	11/13
20AV0028US	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AV0029US	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AV002AUS	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	10/13
20AV002BUS	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AV002GUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV002HUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV002JUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AV002KUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	180G SSD Opal	6235 a/b/g/n+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	10/13
20AV002LUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	180G SSD Opal	6235 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	10/13
20AV002MUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13

- *For detailed platform specifications, please see ThinkPad L540 Platform Specifications sheet*

Processor — Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600
i3-4000M		2.4 GHz	-	3MB	
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage — DVD burner, 9.5mm high, fixed, not removable, tray-in
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD — *Some:* M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display — *Some:* **15.6"** (396mm) **HD (1366x768)**, 220 nits, 500:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4600** in processor

Dimensions[3] — *HD (WxDxH):* 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm
FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
HD	5.54lb / 2.52kg	5.60lb / 2.54kg	5.95lb / 2.70kg
FHD	5.68lb / 2.58kg	5.73lb / 2.60kg	6.08lb / 2.76kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type — Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	9 hr	11 hr	19 hr
Win8 (MobileMark 2012)	6 hr	7 hr	12 hr

AC adapter — 65-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — **Mobile Intel QM87** (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)* — One slot (ExpressCard/34, ExpressCard/54)

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Preload
Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

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ThinkPad L540 20AV (TopSeller) - II

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AV002RUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	EM7355	Select	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV002SUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	EM7355	Select	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV002TUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	EM7355	Select	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV002UUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	Smart	None	None	Finger	6(48wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AV006RUS	i5-4210M	No	HD 4600	HM86	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	03/15
20AV002NUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AV002PUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	1T 5400	7260 ac+BT	16GB	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AV002QUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	11/13
20AV0081US	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	3-depot	No	08/15
20AV0082US	i5-4300M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	3-depot	No	08/15
20AV0083US	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win10 DG Win7	3-depot	No	08/15
20AV0084US	i7-4600M	vPro	HD 4600	QM87	4GBx2	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win10 DG Win7	3-depot	No	08/15
20AV0080US	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad L540 Platform Specifications sheet*

Processor

Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600
i3-4000M		2.4 GHz	-	3MB	
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Storage

DVD burner, 9.5mm high, fixed, not removable, tray-in
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **15.6"** (396mm) **HD (1366x768)**, 220 nits, 500:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor

Dimensions[3]

HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm
FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm

Weight[2]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
HD	5.54lb / 2.52kg	5.60lb / 2.54kg	5.95lb / 2.70kg
FHD	5.68lb / 2.58kg	5.73lb / 2.60kg	6.08lb / 2.76kg

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type

Li-Ion 6-cell *(48Wh or 56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell 48Wh*	*6-cell 56Wh*	*9-cell 99.9Wh*
Win7 (MobileMark® 2007)	9 hr	11 hr	19 hr
Win8 (MobileMark 2012)	6 hr	7 hr	12 hr

AC adapter

65-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 (*vPro model*) or **HM86** (*Non-vPro model*) **Express Chipset**

ExpressCard *(opt)*

One slot (ExpressCard/34, ExpressCard/54)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

HM86 model: Intel Ethernet Connection I217-V (Clarkville)
QM87 model: Intel Ethernet Connection I217-LM (Clarkville)

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Preload

Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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Lenovo® ThinkPad L560



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ThinkPad L560 Platform Specifications

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510
i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		

Graphics — Intel HD Graphics 510 or 520 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle

Multi-touch — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical *(optional)* — DVD burner, 9mm high, fixed, not removable, tray-in

Ethernet
Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — *One of the following, configurable by model:*
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model:*
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm

Weight[2] — from 5.25 lb / 2.38 kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

ExpressCard *(opt)* — One slot (ExpressCard/34)

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Cel 3855U model: three USB 3.0, one USB 2.0 Always On;
Other model: four USB 3.0 (one Always On),
All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

ThinkEngine — Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the palm rest

Battery — Li-Ion 6-cell *(48Wh)*

Max battery life[10] — *MobileMark® 2014:* 11.2 hr

AC adapter — 45W AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12] — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold (US); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad L560 20F1 (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F1001QUS	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	None	None	None	None	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001VUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	None	None	None	None	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001MUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001NUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001PUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001RUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	128G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001SUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001TUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1001UUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	128G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 DG Win7	1-depot	No	02/16
20F1002AUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	EM7455	None	None	None	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	04/16
20F1002CUS	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	EM7455	None	None	None	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad L560 Platform Specifications sheet*

Processor

Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	

Graphics
Intel HD Graphics 510 or 520 in processor

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical *(optional)*
DVD burner, 9mm high, fixed, not removable, tray-in

Ethernet
Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]
BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*
Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]
WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm

Weight[2]
from 5.25 lb / 2.38 kg

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

ExpressCard *(opt)*
One slot (ExpressCard/34)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Cel 3855U model: three USB 3.0, one USB 2.0 Always On;
Other model: four USB 3.0 (one Always On),
All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Camera *(optional)*
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Swipe style fingerprint reader on the palm rest

Battery
Li-Ion 6-cell *(48Wh)*

Max battery life[10]
MobileMark® 2014: 11.2 hr

AC adapter
45W AC adapter

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]
1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(LN1-1) © Lenovo

ThinkPad L560 20F1 (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F1000QUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	None	None	None	None	720p	Finger	6	45W	Win10 P64	1-depot	No	02/16
20F1000VUS	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	None	None	None	None	720p	Finger	6	45W	Win10 P64	1-depot	No	02/16
20F1000PUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000RUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	128G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000SUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000TUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000UUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	128G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000WUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1000XUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	None	None	None	None	720p	None	6	45W	Win10 P64	1-depot	No	02/16
20F1002BUS	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	EM7455	None	None	None	720p	Finger	6	45W	Win10 P64	1-depot	No	04/16
20F1002DUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	EM7455	None	None	None	720p	Finger	6	45W	Win10 P64	1-depot	No	04/16

• *For detailed platform specifications, please see ThinkPad L560 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	

Graphics — Intel HD Graphics 510 or 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical *(optional)* — DVD burner, 9mm high, fixed, not removable, tray-in

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm

Weight[2] — from 5.25 lb / 2.38 kg

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

ExpressCard *(opt)* — One slot (ExpressCard/34)

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — *Cel 3855U model:* three USB 3.0, one USB 2.0 Always On;
Other model: four USB 3.0 (one Always On),
All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the palm rest

Battery — Li-Ion 6-cell *(48Wh)*

Max battery life[10] — *MobileMark® 2014:* 11.2 hr

AC adapter — 45W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

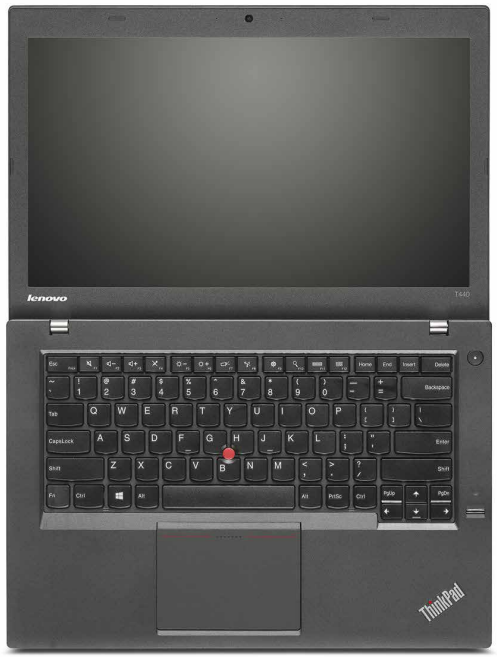
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Lenovo® ThinkPad T440



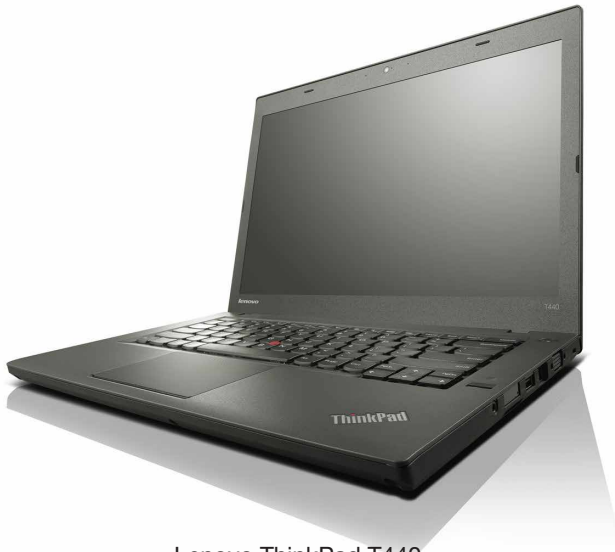
Lenovo ThinkPad T440



Lenovo ThinkPad T440



Lenovo ThinkPad T440



Lenovo ThinkPad T440

ThinkPad T440 Platform Specifications

Positioning
Mainstream Ultrabook™ or Thinbook; one spindle

Processor
4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4010U	2	4	1.7 GHz	-	3MB	DDR3L-1600	Intel HD graphics 4400
i3-4030U			1.9 GHz	-	3MB		
i5-4200U			1.6 GHz	2.6 GHz	3MB		
i5-4210U			1.7 GHz	2.7 GHz	3MB		
i5-4300U			1.9 GHz	2.9 GHz	3MB		
i7-4500U			1.8 GHz	3 GHz	4MB		
i7-4600U			2.1 GHz	3.3 GHz	4MB		

Memory
8GB or 12GB* max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket *(*for the models with 4GB on-board memory)*

Optical
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch
Some: Capacitive-type multi-touch, supports 10-finger gesture

Camera
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4400 in processor only, or
Intel HD Graphics 4400 in processor and **NVIDIA GeForce® GT 720M**, PCI Express® x8, **1GB** memory, NVIDIA® Optimus™ technology;
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max external resolution: 1920x1200@60Hz (VGA);
3840x2160@30Hz (DisplayPort via Mini DisplayPort cable on integrated models);
2560x1600@60Hz (DisplayPort via Mini DisplayPort cable on optimus models)

Dimensions[3]
14.0W" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-MultiTouch	3.79 lb / 1.72kg	4.10 lb / 1.86kg
Integrated MultiTouch	4.03 lb / 1.83kg	4.33 lb / 1.97kg
Optimus Non-MultiTouch	3.73 lb / 1.69kg	4.04 lb / 1.83kg
Optimus MultiTouch	3.97 lb / 1.80kg	4.33 lb / 1.97kg

Case material
Glass-Fiber Reinforced Plastic

Internal battery
Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery
Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Integrated	8.6 hr	12.9 hr	17.2 hr
Optimus	7.7 hr	11.6 hr	15.4 hr

AC adapter
Integrated models: 45-watt AC adapter; *Optimus models:* 65-watt AC adapter

Chipset
Intel SoC (System on Chip) platform

Smart card reader
Optional: Smart card reader, exclusive with M.2 SSD

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC
Optional: Near Field Communication

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Lenovo Reach (Windows 8.1 model)
- Hightail - Metro (Windows 8.1 model)
- Lenovo Cloud Storage by SugarSync - Metro (Windows 8 model)
- Lenovo Cloud Storage by SugarSync (Windows 8 model)
- PC Device Stage
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad T440 20B6 (TopSeller)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B6009TUS	i3-4030U	No	HD 4400	0+4GB	14" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8.1 DG Win7	1-depot	No	09/14
20B60057US	i5-4200U	No	HD 4400	0+4GB	14" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	16GB	720p	None	None	None	3+3	45W	Win8 DG Win7	1-depot	No	09/13
20B6005FUS	i5-4200U	No	HD 4400	0+4GB	14" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	No+6(47.5wh)	45W	Win8 DG Win7	1-depot	No	09/13
20B6006CUS	i5-4200U	No	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	11/13
20B6008EUS	i5-4200U	No	HD 4400	4+0GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	03/14
20B60058US	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	None	None	3+3	45W	Win8 DG Win7	1-depot	No	09/13
20B6005GUS	i5-4300U	No	HD 4400	0+4GB	14" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	No+6(47.5wh)	45W	Win8 DG Win7	1-depot	No	09/13
20B6005RUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	09/13
20B6008CUS	i5-4200U	No	HD 4400	4+0GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	No	03/14
20B60059US	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	None	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005AUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005BUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005CUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005DUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005HUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20B6005JUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20B6005KUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005LUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(47.5wh)	45W	Win8 DG Win7	3-depot	No	09/13
20B6005MUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	None	None	No+6(47.5wh)	45W	Win8 DG Win7	3-depot	No	09/13

- *For detailed platform specifications, please see ThinkPad T440 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i3-4030U		1.9 GHz	-	3MB	
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4500U		1.8 GHz	3 GHz	4MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 8GB or 12GB* max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket *(*for the models with 4GB on-board memory)*

Optical — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD — *Some:* Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display — *Some:* **14.0"** (355mm) **HD (1366x768)**, 200 nits, 350:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3] — *14.0W" (WxDxH):* 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.79 lb / 1.72kg	4.10 lb / 1.86kg
MultiTouch	4.03 lb / 1.83kg	4.33 lb / 1.97kg

Case material — Glass-Fiber Reinforced Plastic

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.6 hr	12.9 hr	17.2 hr

AC adapter — 45-watt AC adapter

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)* *Upg:* Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)* *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — *Non-vPro model:* Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

ThinkPad T440 20B6 (TopSeller) - II

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B6006AUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	No+6(47.5wh)	45W	Win8 DG Win7	3-depot	No	11/13
20B6009MUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	No	07/14
20B6008FUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20B6008GUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20B6008HUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200 Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20B6009NUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	No	07/14
20B6005EUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6005NUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20B6005PUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20B6006BUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20B6006DUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20B6006EUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20B6008DUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20B6008JUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14

- *For detailed platform specifications, please see ThinkPad T440 Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i3-4030U		1.9 GHz	-	3MB	
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4500U		1.8 GHz	3 GHz	4MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory

8GB or 12GB* max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket *(*for the models with 4GB on-board memory)*

Optical

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 350:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio

Multi-touch

Some: Capacitive-type multi-touch, supports 10-finger gesture

Camera

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4400 in processor

Dimensions[3]

14.0W" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.79 lb / 1.72kg	4.10 lb / 1.86kg
MultiTouch	4.03 lb / 1.83kg	4.33 lb / 1.97kg

Case material

Glass-Fiber Reinforced Plastic

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery

Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.6 hr	12.9 hr	17.2 hr

AC adapter

45-watt AC adapter

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Intel SoC (System on Chip) platform

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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ThinkPad T440 20B6 (TopSeller) - Windows 8

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B60076US	i5-4200U	No	HD 4400	0+4GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	None	None	3+3	45W	Win8.1 P64	1-depot	No	01/14
20B60077US	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20B60078US	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20B60079US	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20B6002AUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20B6002BUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20B6008KUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20B6007AUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20B6007BUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20B6009PUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	07/14
20B6002CUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20B6002DUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13

- *For detailed platform specifications, please see ThinkPad T440 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i3-4030U		1.9 GHz	-	3MB	
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4500U		1.8 GHz	3 GHz	4MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 8GB or 12GB* max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket *(*for the models with 4GB on-board memory)*

Optical — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD — *Some:* Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display — *Some:* **14.0"** (355mm) **HD (1366x768)**, 200 nits, 350:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3] — *14.0W" (WxDxH):* 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.79 lb / 1.72kg	4.10 lb / 1.86kg
MultiTouch	4.03 lb / 1.83kg	4.33 lb / 1.97kg

Case material — Glass-Fiber Reinforced Plastic

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.6 hr	12.9 hr	17.2 hr

AC adapter — 45-watt AC adapter

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)* *Upg:* Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)* *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — *Non-vPro model:* Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

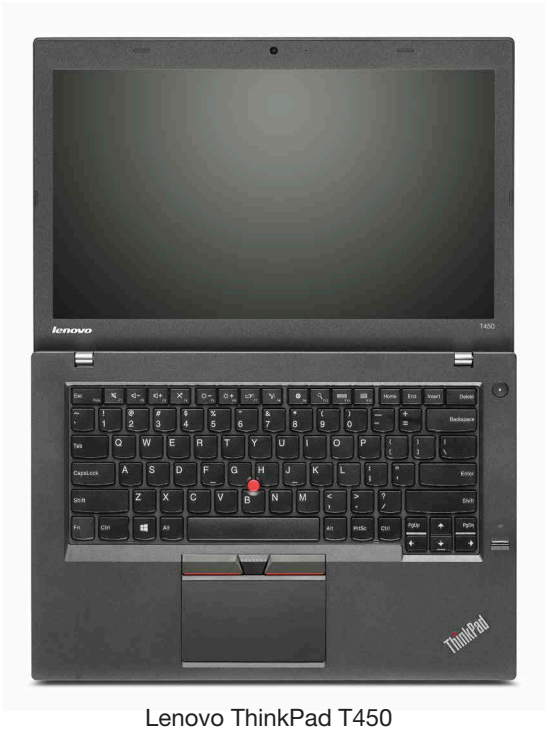
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Lenovo® ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450

ThinkPad T450 Platform Specifications

Processor — 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4030U	2	4	1.9 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4400
i5-4300U			1.9 GHz	2.9 GHz			
i3-5010U			2.1 GHz	-	3MB		Intel HD Graphics 5500
i5-5200U			2.2 GHz	2.7 GHz			
i5-5300U			2.3 GHz	2.9 GHz			
i7-5500U			2.4 GHz	3 GHz	4MB		
i7-5600U			2.6 GHz	3.2 GHz			

Graphics — Intel HD Graphics 4400 or 5500 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio
Some: 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] — *One of the following, configurable by model:*
- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)* — *One of the following, configurable by model:*
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

ThinkEngine — Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.08 hr	14.78 hr	19.78 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload — Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold (US) or EPEAT Silver (WE);
ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T450 20BV (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV0007US	i3-5010U	No	HD 5500	4GBx1	14" HD	No	500G 7200	None	11b/g/n+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	1-depot	No	01/15
20BV0005US	i5-5200U	No	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	1-depot	No	01/15
20BV000CUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	1-depot	No	01/15
20BV0001US	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV0002US	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV0009US	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV000AUS	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV000EUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV0003US	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV000DUS	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BV000BUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	1-depot	No	04/15
20BV0004US	i5-4300U	vPro	HD 4400	8GBx1	14" HD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	04/15
20BV0008US	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	04/15
20BV000FUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	04/15
20BV000GUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	04/15
20BV005FUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV005GUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV005LUS	i7-5600U	vPro	HD 5500	8GBx2	14" FHD	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV0063US	i5-5200U	No	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	09/15
20BV0064US	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T450 Platform Specifications sheet*

Processor 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz		
i3-5010U		2.1 GHz	-		
i5-5200U		2.2 GHz	2.7 GHz		
i5-5300U		2.3 GHz	2.9 GHz		
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz		

Graphics Intel HD Graphics 4400 or 5500 in processor

Chipset Intel SoC (System on Chip) platform

Memory 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* Single-sided M.2 SSD, via M.2 card slot

Optical None

Ethernet Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg

Case material
Display cover: GFRP (non-touch model) or CFRP (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader *Optional:* Smart card reader

Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera HD720p resolution, low light sensitive, fixed focus

Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* Intel vPro Technology

Fingerprint reader *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.08 hr	14.78 hr	19.78 hr

AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(CB2-1) © Lenovo

ThinkPad T450 20BV (TopSeller) - II

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV005HUS	i7-5600U	vPro	HD 5500	8GBx2	14" HD+	MT	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV0061US	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV0062US	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20BV0065US	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T450 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz		
i3-5010U		2.1 GHz	-		
i5-5200U		2.2 GHz	2.7 GHz		
i5-5300U		2.3 GHz	2.9 GHz		
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz		

Graphics — Intel HD Graphics 4400 or 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg

Case material
Display cover: GFRP (non-touch model) or CFRP (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.08 hr	14.78 hr	19.78 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(CB2-7) © Lenovo

ThinkPad T450 20BV (TopSeller) - Windows 8

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV0006US	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad T450 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz		
i3-5010U		2.1 GHz	-		
i5-5200U		2.2 GHz	2.7 GHz		
i5-5300U		2.3 GHz	2.9 GHz		
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz		

Graphics — Intel HD Graphics 4400 or 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg

Case material
Display cover: GFRP (non-touch model) or CFRP (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.08 hr	14.78 hr	19.78 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(CB2-2) © Lenovo

ThinkPad T450 20BV (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV005EUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005PUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005QUS	i7-5600U	vPro	HD 5500	8GBx2	14" FHD	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005JUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 P64	1-depot	No	09/15
20BV005MUS	i5-5200U	No	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 P64	1-depot	No	09/15
20BV005SUS	i7-5600U	vPro	HD 5500	8GBx2	14" HD+	MT	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005KUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005NUS	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BV005RUS	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T450 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz		
i3-5010U		2.1 GHz	-		
i5-5200U		2.2 GHz	2.7 GHz		
i5-5300U		2.3 GHz	2.9 GHz		
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz		

Graphics — Intel HD Graphics 4400 or 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display —
Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits

Storage —
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] —
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)* —
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3] —
14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm
14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg

Case material —
Display cover: GFRP (non-touch model) or CFRP (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.08 hr	14.78 hr	19.78 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload —
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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Lenovo® ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460

ThinkPad T460 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics

Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US);
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
1920x1080@60Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture, 250 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model (WiGig can coexist with WWAN):
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
- WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model (WWAN can coexist with WiGig):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg
Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg
Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg
Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg

Case material

Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)*

WiGig dock, coexists with WWAN

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the keyboard bezel

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*6-cell 48Wh*	*6-cell 72Wh*	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr

AC adapter

45W or 65W Slim AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T460 20FN (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FN002LUS	i7-6600U	vPro	HD 520	8GBx2	14.0" FHD IPS	MT	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002JUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002KUS	i7-6600U	vPro	HD 520	8GBx2	14.0" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002MUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002NUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002QUS	i5-6300U	vPro	HD 520	4GBx1	14.0" FHD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002UUS	i5-6300U	vPro	HD 520	4GBx1	14.0" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002VUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003EUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	240G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003FUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003SUS	i5-6200U	No	HD 520	4GBx2	14.0" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003TUS	i5-6300U	vPro	HD 520	4GBx2	14.0" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003UUS	i5-6300U	vPro	HD 520	4GBx2	14.0" FHD IPS	No	240G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN002HUS	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	500G 7200	8260 ac+BT	Upg	None	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	01/16
20FN002SUS	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	500G 7200	8260 ac+BT	Upg	None	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	01/16
20FN002TUS	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	No	500G 7200	8260 ac+BT	Upg	None	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	01/16
20FN003CUS	i5-6200U	No	HD 520	8GBx1	14.0" HD	No	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003DUS	i5-6200U	No	HD 520	8GBx1	14.0" HD	No	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FN003RUS	i5-6200U	No	HD 520	4GBx2	14.0" HD	No	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad T460 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics
Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)

Chipset
Intel SoC (System on Chip) platform

Memory
32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)*
In-cell touch, supports 10-finger gesture, 250 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical
None

Ethernet
Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]
BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*
Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]
WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg
Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg
Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg
Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg

Case material
Glass-Fiber Reinforced Plastic

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)*
WiGig dock, coexists with WWAN

Camera *(optional)*
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Swipe style fingerprint reader on the keyboard bezel

Internal battery
Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery
Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*6-cell 48Wh*	*6-cell 72Wh*	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr

AC adapter
45W or 65W Slim AC adapter

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]
1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

ThinkPad T460 20FN (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FN002PUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FN002RUS	i7-6600U	vPro	HD 520	8GBx2	14.0" FHD IPS	MT	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad T460 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics

Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture, 250 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]

BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg
Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg
Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg
Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg

Case material

Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)*

WiGig dock, coexists with WWAN

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the keyboard bezel

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*6-cell 48Wh*	*6-cell 72Wh*	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr

AC adapter

45W or 65W Slim AC adapter

Preload

Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(CB3-2) © Lenovo



Lenovo® ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p

ThinkPad T440p Platform Specifications

Positioning
Mainstream performance; two spindles

Processor
4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4700MQ	4	8	2.4 GHz	3.4 GHz	6MB		
i7-4710MQ			2.5 GHz	3.5 GHz	6MB		
i7-4800MQ			2.7 GHz	3.7 GHz	6MB		
i7-4810MQ			2.8 GHz	3.8 GHz	6MB		
i7-4900MQ			2.8 GHz	3.8 GHz	8MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical
DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay
One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access

Storage
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™
All: removable, upgradable, supports the second disk, Shock Mounted

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, **IPS**

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4600 in processor only, or
Intel HD Graphics 4600 in processor and **NVIDIA GeForce® GT 730M**, PCI Express® x8, **1GB** memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable)

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg
Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg

Case material
Display cover: Glass-Fiber Reinforced Plastic;
Bottom: Carbon-Fiber Reinforced Plastic

Battery type
Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7.4 hr	13.2 hr
Optimus	7.2 hr	12.7 hr

AC adapter

Models	*dual-core*	*quad-core*
Integrated	65-watt	90-watt
Optimus	90-watt	135-watt

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Chipset
Mobile Intel QM87 Express Chipset

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Intel Ethernet Connection I217-LM (Clarkville)

NFC
Optional: Near Field Communication

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad T440p 20AN (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AN0069US	i5-4200M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	6	65W	Win8 DG Win7	1-depot	No	10/13
20AN006AUS	i5-4300M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	1-depot	No	10/13
20AN006BUS	i5-4300M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	6	65W	Win8 DG Win7	1-depot	No	10/13
20AN006CUS	i5-4300M	vPro	HD 4600	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006DUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006EUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006FUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006GUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006HUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006JUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	None	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN006KUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20AN00DEUS	i5-4210M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	6	65W	Win8.1 DG Win7	1-depot	No	03/15
20AN00EJUS	i5-4210M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	6	65W	Win10 DG Win7	1-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T440p Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4710MQ		2.5 GHz	3.5 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Ultrabay — DVD burner, 9.5mm Ultrabay slim, removable

Storage — One modular bay for removable devices (right side, cold swap), 9.5mm high
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD — *Some:* M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 or 500:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio, IPS

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4600** in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3] — *14.0W" (WxDxH):* 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg
Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg

Case material — *Top cover:* Glass-Fiber Reinforced Plastic; *Bottom:* Carbon-Fiber Reinforced Plastic

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Battery type — Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7.4 hr	13.2 hr
Optimus	7.2 hr	12.7 hr

AC adapter — 65-watt, 90-watt, or 135-watt AC adapter

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

Chipset — **Mobile Intel QM87 Express Chipset**

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Intel Ethernet Connection I217-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

US model(s) withdrawn effective March 2015

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ThinkPad T440p 20AN (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AN00F3US	i5-4210M	No	HD 4600	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	None	None	6	65W	Win10 P64	1-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T440p Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4710MQ		2.5 GHz	3.5 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Ultrabay

DVD burner, 9.5mm Ultrabay slim, removable

Storage

One modular bay for removable devices (right side, cold swap), 9.5mm high
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 or 500:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio, IPS

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]

14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg
Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg

Case material

Top cover: Glass-Fiber Reinforced Plastic; *Bottom:* Carbon-Fiber Reinforced Plastic

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Battery type

Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7.4 hr	13.2 hr
Optimus	7.2 hr	12.7 hr

AC adapter

65-watt, 90-watt, or 135-watt AC adapter

Keyboard UltraNav™

6-row, spill-resistant, multimedia Fn keys, optional LED backlight
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

Chipset

Mobile Intel QM87 Express Chipset

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Intel Ethernet Connection I217-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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ThinkPad T440p 20AN (Optimus) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AN00DBUS	i7-4600M	vPro	GT 730M	8GBx1	14" FHD IPS	512G SSD	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	No	10/14
20AN00DCUS	i7-4600M	vPro	GT 730M	8GBx1	14" FHD IPS	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	No	10/14
20AN006LUS	i7-4600M	vPro	GT 730M	8GBx1	14" FHD IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20AN006MUS	i7-4600M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20AN006NUS	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20AN007HUS	i7-4600M	vPro	GT 730M	4GBx2	14" HD+	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	11/13
20AN007JUS	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	11/13
20AN0096US	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	01/14
20AN009CUS	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	01/14
20AN00ANUS	i7-4700MQ	No	GT 730M	8GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	135W	Win8 DG Win7	3-depot	No	03/14
20AN00APUS	i5-4300M	vPro	GT 730M	8GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	03/14
20AN00DFUS	i7-4710MQ	No	GT 730M	8GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	9	135W	Win8.1 DG Win7	3-depot	No	03/15
20AN00EGUS	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win10 DG Win7	3-depot	No	08/15
20AN00EHUS	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T440p Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4710MQ		2.5 GHz	3.5 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory: 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical: DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay: One modular bay for removable devices (right side, cold swap), 9.5mm high

Storage: *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD: *Some:* M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display: *Some:* **14.0"** (355mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 or 500:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio, IPS

Camera *(optional)*: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics: **Intel HD Graphics 4600** in processor, or **Intel HD Graphics 4600** and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]: *14.0W" (WxDxH):* 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg
Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg

Case material: *Top cover:* Glass-Fiber Reinforced Plastic; *Bottom:* Carbon-Fiber Reinforced Plastic

Audio support: HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Battery type: Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7.4 hr	13.2 hr
Optimus	7.2 hr	12.7 hr

AC adapter: 65-watt, 90-watt, or 135-watt AC adapter

Keyboard: 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™: TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

Chipset: **Mobile Intel QM87 Express Chipset**

Smart card reader: *Optional:* Smart card reader

Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports: Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required
Select: User selectable, contract required with service provider

Bluetooth™: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet: Intel Ethernet Connection I217-LM (Clarkville)

NFC: *Optional:* Near Field Communication

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*: Intel vPro Technology

Fingerprint reader: *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]: **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

US model(s) withdrawn effective March 2015

(OA1-2) © Lenovo

ThinkPad T440p 20AN (Optimus) - TopSeller (Windows 10)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AN00F2US	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win10 P64	3-depot	No	09/15
20AN00F4US	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T440p Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i3-4100M		2.5 GHz	-	3MB	
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4210M		2.6 GHz	3.2 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4710MQ		2.5 GHz	3.5 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Ultrabay

DVD burner, 9.5mm Ultrabay slim, removable

Storage

One modular bay for removable devices (right side, cold swap), 9.5mm high
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **14.0"** (355mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 or 500:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio, IPS

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]

14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg
Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg

Case material

Top cover: Glass-Fiber Reinforced Plastic; *Bottom:* Carbon-Fiber Reinforced Plastic

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Battery type

Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7.4 hr	13.2 hr
Optimus	7.2 hr	12.7 hr

AC adapter

65-watt, 90-watt, or 135-watt AC adapter

Keyboard UltraNav™

6-row, spill-resistant, multimedia Fn keys, optional LED backlight
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

Chipset

Mobile Intel QM87 Express Chipset

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Intel Ethernet Connection I217-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

(OA1-12) © Lenovo



Lenovo® ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p

ThinkPad T460p Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6300HQ	4	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133	Intel HD Graphics 530
i5-6440HQ			2.6 GHz	3.5 GHz			
i7-6700HQ		8	2.6 GHz	3.5 GHz	6MB		
i7-6820HQ			2.7 GHz	3.6 GHz	8MB		

Graphics

Intel HD Graphics 530 in processor only, or
Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays;
Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI)

Chipset

Mobile Intel QM170 Chipset

Memory

32GB max[7] / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 or 800:1 contrast ratio, 160° viewing angle

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™

Optical

None

Ethernet

Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model:
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg

Case material

Display cover: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic;
Bottom: Magnesium alloy

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Touch style fingerprint reader on the keyboard bezel

Battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Integrated model	4.34 hr	8.58 hr	13 hr
discrete model	4.1 hr	8.5 hr	13 hr

AC adapter

90W or 135W AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T460p 20FW (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW000SUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3(23wh)	90W	Win10 DG Win7	3-depot	No	01/16
20FW000UUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(72wh)	90W	Win10 DG Win7	3-depot	No	01/16
20FW000VUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-depot	No	01/16
20FW000SUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3(23wh)	90W	Win10 DG Win7	3-depot	No	03/16
20FW000UUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(72wh)	90W	Win10 DG Win7	3-depot	No	03/16
20FW000VUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad T460p Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133
i5-6440HQ		2.6 GHz	3.5 GHz	6MB	
i7-6700HQ		2.6 GHz	3.5 GHz	6MB	
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	

Graphics

Intel HD Graphics 530 in processor only, or
Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset

Mobile Intel QM170 Chipset

Memory

32GB max[7] / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

Optical

None

Ethernet

Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg

Case material

Display cover: PC/ABS plastic; *Bottom:* Magnesium alloy

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Touch style fingerprint reader on the keyboard bezel

Battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Integrated model	4.34 hr	8.58 hr	13 hr
discrete model	4.1 hr	8.5 hr	13 hr

AC adapter

90W or 135W AC adapter

Preload

Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(TL1-1) © Lenovo

ThinkPad T460p 20FW (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW002DUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-depot	No	01/16
20FW002DUS	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad T460p Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133
i5-6440HQ		2.6 GHz	3.5 GHz	6MB	
i7-6700HQ		2.6 GHz	3.5 GHz	6MB	
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	

Graphics — Intel HD Graphics 530 in processor only, or
Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset — Mobile Intel QM170 Chipset

Memory — 32GB max[7] / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

Optical — None

Ethernet — Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm

Weight[2]

Models	3-cell	6-cell
Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg

Case material — *Display cover:* PC/ABS plastic; *Bottom:* Magnesium alloy

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	3-cell	6-cell 48Wh	6-cell 72Wh
Integrated model	4.34 hr	8.58 hr	13 hr
discrete model	4.1 hr	8.5 hr	13 hr

AC adapter — 90W or 135W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad T460p 20FW (Discrete) - TopSeller

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW000TUS	i7-6820HQ	vPro	940MX	16GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 DG Win7	3-depot	No	03/16
20FW000WUS	i7-6820HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 DG Win7	3-depot	No	03/16
20FW003RUS	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 DG Win7	3-depot	No	04/16
20FW003SUS	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460p Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133
i5-6440HQ		2.6 GHz	3.5 GHz	6MB	
i7-6700HQ		2.6 GHz	3.5 GHz	6MB	
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	

Graphics — Intel HD Graphics 530 in processor only, or
Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset — Mobile Intel QM170 Chipset

Memory — 32GB max[7] / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

Optical — None

Ethernet — Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm

Weight[2]

Models	3-cell	6-cell
Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg

Case material — *Display cover:* PC/ABS plastic; *Bottom:* Magnesium alloy

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	3-cell	6-cell 48Wh	6-cell 72Wh
Integrated model	4.34 hr	8.58 hr	13 hr
discrete model	4.1 hr	8.5 hr	13 hr

AC adapter — 90W or 135W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(TL1-3) © Lenovo

ThinkPad T460p 20FW (Discrete) - TopSeller (Windows 10)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW003QUS	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 P64	3-depot	No	04/16
20FW003TUS	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	6(48wh)	135W	Win10 P64	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460p Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133
i5-6440HQ		2.6 GHz	3.5 GHz	6MB	
i7-6700HQ		2.6 GHz	3.5 GHz	6MB	
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	

Graphics — Intel HD Graphics 530 in processor only, or
Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset — Mobile Intel QM170 Chipset

Memory — 32GB max[7] / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS

Multi-touch — None

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

Optical — None

Ethernet — Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm

Weight[2]

Models	*3-cell*	*6-cell*
Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg

Case material — *Display cover:* PC/ABS plastic; *Bottom:* Magnesium alloy

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the keyboard bezel

Battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Integrated model	4.34 hr	8.58 hr	13 hr
discrete model	4.1 hr	8.5 hr	13 hr

AC adapter — 90W or 135W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s

ThinkPad T440s Platform Specifications

Positioning
Premium Ultrabook™ or Thinbook; one spindle

Processor
4th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-4200U	2	4	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Intel HD graphics 4400
i5-4210U			1.7 GHz	2.7 GHz	3MB		
i5-4300U			1.9 GHz	2.9 GHz	3MB		
i7-4600U			2.1 GHz	3.3 GHz	4MB		

Memory
12GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Optical
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch
Some: Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4400 in processor only, or
Intel HD Graphics 4400 in processor and **NVIDIA GeForce® GT 730M**, PCI Express® x8, **1GB** memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max external resolution: 1920x1200@60Hz (VGA);
3840x2160@30Hz (DisplayPort via Mini DisplayPort cable on integrated models);
3840x2160@60Hz (DisplayPort via Mini DisplayPort cable on optimus models)

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm
14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.5 lb / 1.59kg	3.9 lb / 1.77kg
MultiTouch	3.9 lb / 1.76	4.2 lb / 1.94kg

Case material
Display cover: Hybrid Carbon-fiber reinforced plastic; *Bottom:* Magnesium alloy

Internal battery
Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery
Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Integrated	8.4 hr	12.6 hr	16.8 hr
Optimus	8.3 hr	12.4 hr	16.6 hr

AC adapter
45-watt (integrated models only), 65-watt, or 65-watt Slim AC adapter

Chipset
Intel SoC (System on Chip) platform

Smart card reader
Optional: Smart card reader, exclusive with M.2 SSD

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC
Optional: Near Field Communication

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Lenovo Reach (Windows 8.1 model)
- Hightail - Metro (Windows 8.1 model)
- Lenovo Cloud Storage by SugarSync - Metro (Windows 8 model)
- Lenovo Cloud Storage by SugarSync (Windows 8 model)
- PC Device Stage
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad T440s 20AQ (TopSeller)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit keyboard	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AQ005NUS	i5-4200U	No	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	09/13
20AQ005PUS	i5-4200U	No	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20AQ009GUS	i5-4300U	vPro	HD 4400	4+4GB	14" FHD IPS	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	No	07/14
20AQ005QUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20AQ005SUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20AQ005TUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20AQ005UUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20AQ005VUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20AQ006JUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AQ008FUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20AQ008GUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200 Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	03/14
20AQ009HUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	No	07/14
20AQ005WUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	09/13
20AQ005XUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20AQ005YUS	i7-4600U	vPro	HD 4400	4+0GB	14" FHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	10/13
20AQ006FUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AQ006GUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AQ006HUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13

- *For detailed platform specifications, please see ThinkPad T440s Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 12GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Optical — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
- *Some:* SSHD with 8GB NAND flash memory

M.2 SSD
- *Some:* Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
- *Some:* Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
- *Some:* **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio
- *Some:* **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3]
- *14.0W" (WxDxH):* 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm
- *14.0W" MultiTouch (WxDxH):* 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.5 lb / 1.59kg	3.9 lb / 1.77kg
MultiTouch	3.9 lb / 1.76kg	4.2 lb / 1.94kg

Case material — *Display cover:* Hybrid Carbon-fiber reinforced plastic; *Bottom:* Magnesium alloy

Internal battery — Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.4 hr	12.6 hr	16.8 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

WLAN[4]
- *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
- *7260 b/g/n+BT:* Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 a/b/g/n+BT:* Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 ac+BT:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *EM7355:* Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
- *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
- *Select:* User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
- *Non-vPro model:* Intel Ethernet Connection I218-V (Clarkville)
- *vPro model:* Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
- *Win8 / 8.1 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
- *Win8 / 8.1 64:* Windows 8 / 8.1 64-bit
- *Win8 / 8.1 P64:* Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] — **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

ThinkPad T440s 20AQ (TopSeller) - Windows 8

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit keyboard	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AQ0071US	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20AQ0074US	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20AQ004EUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20AQ004FUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20AQ004GUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20AQ006DUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AQ006EUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AQ0072US	i7-4600U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20AQ0073US	i7-4600U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	01/14
20AQ009JUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	07/14
20AQ004HUS	i7-4600U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20AQ004JUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20AQ004KUS	i7-4600U	vPro	HD 4400	4+0GB	14" FHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13

- *For detailed platform specifications, please see ThinkPad T440s Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 12GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Optical — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio
Some: **14.0"** (355mm) **FHD (1920x1080)**, 300 nits, 700:1 contrast ratio

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3]
14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm
14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm

Weight[2]

Models	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	3.5 lb / 1.59kg	3.9 lb / 1.77kg
MultiTouch	3.9 lb / 1.76kg	4.2 lb / 1.94kg

Case material — *Display cover:* Hybrid Carbon-fiber reinforced plastic; *Bottom:* Magnesium alloy

Internal battery — Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh),* HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.4 hr	12.6 hr	16.8 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] — **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

(STG1-2) © Lenovo



Lenovo® ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



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ThinkPad T450s Platform Specifications

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics

Intel HD Graphics 5500 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

20GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Display

Some: 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 264 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

Single-sided M.2 SSD, via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm
14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg

Case material

Display cover: Carbon-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.16 hr	14.9 hr	19.9 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US) or EPEAT Silver (WE);
ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T450s 20BX (TopSeller)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BX001PUS	i5-5200U	No	HD 5500	4+0GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	1-depot	No	01/15
20BX0015US	i5-5300U	vPro	HD 5500	4+0GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX0016US	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX0017US	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX0018US	i5-5300U	vPro	HD 5500	4+4GB	14" FHD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX0019US	i5-5300U	vPro	HD 5500	4+0GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001AUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001DUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001EUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001HUS	i5-5300U	vPro	HD 5500	4+0GB	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001JUS	i5-5300U	vPro	HD 5500	4+0GB	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001KUS	i5-5300U	vPro	HD 5500	4+4GB	14" FHD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001NUS	i5-5300U	vPro	HD 5500	4+0GB	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001BUS	i7-5600U	vPro	HD 5500	4+4GB	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001CUS	i7-5600U	vPro	HD 5500	4+4GB	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001FUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX001LUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20BX003SUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20BX003TUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20BX003PUS	i5-5200U	No	HD 5500	4+0GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	08/15
20BX003QUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20BX003RUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T450s Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Display — *Some:* 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 264 nits

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] — *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Dimensions[3] — *14.0" (WxDxH):* 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm
14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.16 hr	14.9 hr	19.9 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload — *Win8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(STG2-1) © Lenovo

ThinkPad T450s 20BX (TopSeller) - Windows 8

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BX001GUS	i5-5300U	vPro	HD 5500	4+4GB	14" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-depot	No	01/15
20BX001MUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad T450s Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics: Intel HD Graphics 5500 in processor

Chipset: Intel SoC (System on Chip) platform

Memory: 20GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Display
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)*: Capacitive-type multi-touch, supports 10-finger gesture, 264 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*: Single-sided M.2 SSD, via M.2 card slot

Optical: None

Ethernet: Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*: AT&T® or Verizon® LTE (4G), contract required with service provider

Camera: HD720p resolution, low light sensitive, fixed focus

Audio support: HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Dimensions[3]
14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm
14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg

Case material: *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader: *Optional:* Smart card reader

Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports: Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Keyboard: 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™: TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*: Intel vPro Technology

Fingerprint reader: *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery: *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery: Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.16 hr	14.9 hr	19.9 hr

AC adapter: 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]: 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad T450s 20BX (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BX005DUS	i5-5300U	vPro	HD 5500	4+4GB	14" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BX005FUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BX005GUS	i7-5600U	vPro	HD 5500	4+4GB	14" FHD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BX005CUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20BX005EUS	i5-5200U	No	HD 5500	4+0GB	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 P64	1-depot	No	09/15
20BX005HUS	i5-5300U	vPro	HD 5500	4+4GB	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T450s Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics: Intel HD Graphics 5500 in processor

Chipset: Intel SoC (System on Chip) platform

Memory: 20GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket

Display
Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)*: Capacitive-type multi-touch, supports 10-finger gesture, 264 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*: Single-sided M.2 SSD, via M.2 card slot

Optical: None

Ethernet: Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*: AT&T® or Verizon® LTE (4G), contract required with service provider

Camera: HD720p resolution, low light sensitive, fixed focus

Audio support: HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Dimensions[3]
14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm
14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg

Case material: *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader: *Optional:* Smart card reader

Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports: Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)

Keyboard: 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™: TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*: Intel vPro Technology

Fingerprint reader: *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery: *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery: Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	10.16 hr	14.9 hr	19.9 hr

AC adapter: 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]: 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(STG2-7) © Lenovo



Lenovo® ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s

ThinkPad T460s Platform Specifications

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520
i5-6300U			2.4 GHz	3 GHz	3MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US);
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
4096x2160@24Hz (HDMI)

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB or 24GB max[7] / 2133MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

Display — *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture, 250 nits

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
- WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight[2] — *Integrated model:* from 3.0 lb (1.36kg); *Discrete model:* from 3.3 lb (1.50kg)

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic;
Bottom: Magnesium alloy

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

ThinkEngine — Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the palm rest

Internal battery — Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life[10] — *MobileMark® 2014:* up to 10.5 hr

AC adapter — 45W or 65W AC adapter

Preload — Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12] — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T460s 20F9 (TopSeller)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Blue-tooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F9001DUS	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90034US	i5-6300U	vPro	HD 520	4+0GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90035US	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90036US	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90037US	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90039US	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	1-depot	No	02/16
20F9003BUS	i5-6300U	vPro	HD 520	4+0GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003CUS	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003DUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003EUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003GUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003HUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003JUS	i5-6300U	vPro	HD 520	4+0GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9004FUS	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F90033US	i7-6600U	vPro	HD 520	4+4GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9003AUS	i7-6600U	vPro	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9004MUS	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9004PUS	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	512G SSD	18260 ac+BT	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	02/16
20F9005BUS	i7-6600U	vPro	HD 520	4+16GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F9005LUS	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	256G SSD Opal2	18260 ac+BT	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460s Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB or 24GB max[7] / 2133MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture, 250 nits

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Dimensions[3] — *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight[2] — *Integrated model:* from 3.0 lb (1.36kg); *Discrete model:* from 3.3 lb (1.50kg)

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium alloy

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the palm rest

Internal battery — Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life[10] — *MobileMark® 2014:* up to 10.5 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad T460s 20F9 (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F90038US	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9003FUS	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9001CUS	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9004DUS	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9004EUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9004JUS	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 P64	1-depot	No	02/16
20F9004LUS	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9004NUS	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F90019US	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9004GUS	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	512G SSD	18260 ac+BT	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	02/16
20F9005AUS	i7-6600U	vPro	HD 520	4+16GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F9005DUS	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	256G SSD Opal2	18260 ac+BT	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460s Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB or 24GB max[7] / 2133MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture, 250 nits

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Dimensions[3] — *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight[2] — *Integrated model:* from 3.0 lb (1.36kg); *Discrete model:* from 3.3 lb (1.50kg)

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium alloy

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the palm rest

Internal battery — Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life[10] — *MobileMark® 2014:* up to 10.5 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad T460s 20F9 (Discrete) - TopSeller

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Blue-tooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F9005EUS	i5-6300U	vPro	930M	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20F9005KUS	i7-6600U	vPro	930M	8+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20F9005FUS	i7-6600U	vPro	930M	8+0GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460s Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory
(discrete graphics is only available in US)

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB or 24GB max[7] / 2133MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture, 250 nits

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Dimensions[3] — *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight[2] — *Integrated model:* from 3.0 lb (1.36kg); *Discrete model:* from 3.3 lb (1.50kg)

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium alloy

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the palm rest

Internal battery — Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life[10] — *MobileMark® 2014:* up to 10.5 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad T460s 20F9 (Discrete) - TopSeller (Windows 10)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F9005GUS	i5-6300U	vPro	930M	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-depot	No	04/16
20F9005HUS	i7-6600U	vPro	930M	8+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-depot	No	04/16
20F9005JUS	i7-6600U	vPro	930M	8+0GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T460s Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory
(discrete graphics is only available in US)

Chipset — Intel SoC (System on Chip) platform

Memory — 20GB or 24GB max[7] / 2133MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture, 250 nits

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Dimensions[3] — *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight[2] — *Integrated model:* from 3.0 lb (1.36kg); *Discrete model:* from 3.3 lb (1.50kg)

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic; *Bottom:* Magnesium alloy

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style fingerprint reader on the palm rest

Internal battery — Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life[10] — *MobileMark® 2014:* up to 10.5 hr

AC adapter — 45W or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p

ThinkPad T540p Platform Specifications

Positioning
Premiere performance; two spindles

Processor
4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4700MQ	4	8	2.4 GHz	3.4 GHz	6MB		
i7-4710MQ			2.5 GHz	3.5 GHz	6MB		
i7-4800MQ			2.7 GHz	3.7 GHz	6MB		
i7-4900MQ			2.8 GHz	3.8 GHz	8MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical
DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay
One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access

Storage
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™
All: removable, upgradable, supports the second disk, Shock Mounted

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **15.6"** (396mm) **HD (1366x768)**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: **15.5"** (394mm) **3K (2880x1620)**, anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, **IPS**

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4600 in processor only, or
Intel HD Graphics 4600 in processor and **NVIDIA GeForce® GT 730M**, PCI Express® x8, **1GB** memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable)

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	5.43 lb / 2.46kg	5.80 lb / 2.63kg

Case material
Glass-Fiber Reinforced Plastic

Battery type
Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	6.2 hr	11 hr

AC adapter
65-watt, 90-watt, or 135-watt AC adapter

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Intel Ethernet Connection I217-LM (Clarkville)

NFC
Optional: Near Field Communication

Chipset
Mobile Intel QM87 Express Chipset

ExpressCard
One slot (ExpressCard/34)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the palm rest, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad T540p 20BE (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BE003AUS	i5-4200M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win8 DG Win7	1-depot	No	10/13
20BE003CUS	i5-4300M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win8 DG Win7	1-depot	No	10/13
20BE003DUS	i5-4300M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003EUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003FUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003GUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003HUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003JUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE003KUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	No	10/13
20BE004EUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 DG Win7	3-depot	No	11/13
20BE0095US	i5-4300M	vPro	HD 4600	8GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 DG Win7	3-depot	No	03/14
20BE00BTUS	i5-4210M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win8 DG Win7	1-depot	No	03/15
20BE00CVUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win10 DG Win7	3-depot	No	08/15
20BE00CTUS	i5-4210M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win10 DG Win7	1-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T540p Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical — DVD burner, 9.5mm Ultrabay slim, removable
Ultrabay — One modular bay for removable devices (right side, cold swap), 9.5mm high
Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
M.2 SSD — *Some:* M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display — *Some:* **15.6"** (396mm) **HD (1366x768)**, 220 nits, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio
Some: **15.5"** (394mm) **3K (2880x1620)**, 350 nits, 1000:1 contrast ratio, IPS
Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4600** in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3] — *HD (WxDxH):* 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	5.43 lb / 2.46kg	5.80 lb / 2.63kg

Case material — Glass-Fiber Reinforced Plastic
Battery type — Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication
Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	6.2 hr	11 hr

AC adapter — 65-watt, 90-watt, or 135-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
ThinkLight™ — None

Chipset — **Mobile Intel QM87 Express Chipset**
ExpressCard — One slot (ExpressCard/34)
Smart card reader — *Optional:* Smart card reader
Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports — Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet — Intel Ethernet Connection I217-LM (Clarkville)
NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole
Security chip — Trusted Platform Module, TCG 1.2-compliant
vPro *(optional)* — Intel vPro Technology
Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Preload
Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

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ThinkPad T540p 20BE (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BE00DCUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win10 P64	3-depot	No	09/15
20BE00DFUS	i5-4210M	No	HD 4600	4GBx1	15.6" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/34	720p	None	None	None	6	65W	Win10 P64	1-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T540p Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Ultrabay Storage

DVD burner, 9.5mm Ultrabay slim, removable

M.2 SSD

One modular bay for removable devices (right side, cold swap), 9.5mm high
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **15.6"** (396mm) **HD (1366x768)**, 220 nits, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio
Some: **15.5"** (394mm) **3K (2880x1620)**, 350 nits, 1000:1 contrast ratio, IPS

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]

HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	5.43 lb / 2.46kg	5.80 lb / 2.63kg

Case material

Glass-Fiber Reinforced Plastic

Battery type

Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	6.2 hr	11 hr

AC adapter

65-watt, 90-watt, or 135-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
UltraNav™

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 Express Chipset

ExpressCard

One slot (ExpressCard/34)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Intel Ethernet Connection I217-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

(KM1-9) © Lenovo

ThinkPad T540p 20BE (Optimus) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BE00BPUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	512G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	No	10/14
20BE003LUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003MUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003NUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003PUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003QUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003RUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE003SUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	10/13
20BE004FUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	11/13
20BE004GUS	i7-4600M	vPro	GT 730M	4GBx2	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	11/13
20BE007YUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	01/14
20BE0085US	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	240G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	No	01/14
20BE0096US	i7-4700MQ	No	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	135W	Win8 DG Win7	3-depot	No	03/14
20BE00BSUS	i7-4710MQ	No	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	135W	Win8 DG Win7	3-depot	No	03/15
20BE00CWUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	240G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win10 DG Win7	3-depot	No	08/15
20BE00CXUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T540p Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical / Ultrabay / Storage / M.2 SSD
DVD burner, 9.5mm Ultrabay slim, removable
One modular bay for removable devices (right side, cold swap), 9.5mm high
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **15.6"** (396mm) **HD (1366x768)**, 220 nits, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio
Some: **15.5"** (394mm) **3K (2880x1620)**, 350 nits, 1000:1 contrast ratio, IPS

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4600** in processor, or **Intel HD Graphics 4600** and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]
HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	5.43 lb / 2.46kg	5.80 lb / 2.63kg

Case material — Glass-Fiber Reinforced Plastic

Battery type — Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	6.2 hr	11 hr

AC adapter — 65-watt, 90-watt, or 135-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard / UltraNav™ / ThinkLight™
6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
None

Chipset — **Mobile Intel QM87 Express Chipset**
ExpressCard — One slot (ExpressCard/34)
Smart card reader — *Optional:* Smart card reader
Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports — Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet — Intel Ethernet Connection I217-LM (Clarkville)
NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole
Security chip — Trusted Platform Module, TCG 1.2-compliant
vPro *(optional)* — Intel vPro Technology
Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Preload
Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(KM1-2) © Lenovo

ThinkPad T540p 20BE (Optimus) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Cam-era	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BE00DDUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win10 P64	3-depot	No	09/15
20BE00DEUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	240G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T540p Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600
i5-4200M		2.5 GHz	3.1 GHz	3MB	
i5-4300M		2.6 GHz	3.3 GHz	3MB	
i5-4330M		2.8 GHz	3.5 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB	
i7-4800MQ		2.7 GHz	3.7 GHz	6MB	
i7-4900MQ		2.8 GHz	3.8 GHz	8MB	

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical Ultrabay

DVD burner, 9.5mm Ultrabay slim, removable
One modular bay for removable devices (right side, cold swap), 9.5mm high

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **15.6"** (396mm) **HD (1366x768)**, 220 nits, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, 300 nits, 500:1 contrast ratio
Some: **15.5"** (394mm) **3K (2880x1620)**, 350 nits, 1000:1 contrast ratio, IPS

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4600 in processor, or
Intel HD Graphics 4600 and **NVIDIA GeForce® GT 730M**, 1GB memory (Optimus)

Dimensions[3]

HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	5.43 lb / 2.46kg	5.80 lb / 2.63kg

Case material

Glass-Fiber Reinforced Plastic

Battery type

Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	6.2 hr	11 hr

AC adapter

65-watt, 90-watt, or 135-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Mobile Intel QM87 Express Chipset

ExpressCard

One slot (ExpressCard/34)

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Intel Ethernet Connection I217-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Preload

Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

(KM1-10) © Lenovo



Lenovo® ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550

ThinkPad T550 Platform Specifications

Processor 5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics Intel HD Graphics 5500 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA)

Chipset Intel SoC (System on Chip) platform

Memory 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 200 or 220 nits, 16:9 aspect ratio, 350:1 or 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* Single-sided M.2 SSD, via M.2 card slot

Optical None

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] *One of the following, configurable by model:*
- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)* *One of the following, configurable by model:*
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
Multi-touch	-	5.01 lb / 2.27 kg	5.35 lb / 2.43 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader *Optional:* Smart card reader

Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* HD720p resolution, low light sensitive, fixed focus

Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Trusted Platform Module, TCG 1.2-compliant

ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* Intel vPro Technology

Fingerprint reader *Optional:* Fingerprint reader on the palm rest, swipe sensor

Internal battery *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	14.8 hr	20 hr	25.2 hr

AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test MIL-STD-810G military certification

Environment EPEAT™ Gold (US) or EPEAT Silver (WE);
ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T550 20CK (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CK000GUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000BUS	i5-5300U	vPro	HD 5500	8GBx1	15.6" FHD	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000CUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000FUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000HUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000KUS	i5-5300U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000LUS	i5-5300U	vPro	HD 5500	8GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000MUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" FHD	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000DUS	i7-5600U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000EUS	i7-5600U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK000JUS	i7-5600U	vPro	HD 5500	8GBx1	15.6" FHD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CK0025US	i5-5300U	vPro	HD 5500	4GBx1	15.6" FHD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CK002SUS	i5-5300U	vPro	HD 5500	8GBx1	15.6" FHD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CK0045US	i5-5300U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CK0046US	i7-5600U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CK0047US	i7-5600U	vPro	HD 5500	8GBx1	15.6" FHD	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CK0048US	i5-5200U	No	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CK0049US	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad T550 Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor only, or
Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
Multi-touch	-	5.01 lb / 2.27 kg	5.35 lb / 2.43 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Internal battery — *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery — Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	14.8 hr	20 hr	25.2 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(SZ1-1) © Lenovo

ThinkPad T550 20CK (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CK004QUS	i5-5300U	vPro	HD 5500	8GBx1	15.5" 3K IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CK004MUS	i5-5300U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CK004RUS	i7-5600U	vPro	HD 5500	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CK004LUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CK004SUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad T550 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics

Intel HD Graphics 5500 in processor only, or
Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

Single-sided M.2 SSD, via M.2 card slot

Optical

None

Ethernet

Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7345: Wireless WAN, Sierra Wireless EM7345,
Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
Multi-touch	-	5.01 lb / 2.27 kg	5.35 lb / 2.43 kg

Case material

Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or
Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	14.8 hr	20 hr	25.2 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload

Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(SZ1-4) © Lenovo



Lenovo® ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560

ThinkPad T560 Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
i5-6300U			2.4 GHz	3 GHz	3MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics

Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory;
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
4096x2160@24Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits,16:9 aspect ratio, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle
Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model:
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material

Display cover: PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the palm rest

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	13.2 hr	18.0 hr	22.7 hr
discrete model	13.5 hr	18.3 hr	24.3 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad T560 20FH (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH001UUS	i5-6300U	vPro	HD 520	4GBx1	15.5" 3K IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001WUS	i7-6600U	vPro	HD 520	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH0021US	i5-6300U	vPro	HD 520	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH002KUS	i7-6600U	vPro	HD 520	8GBx2	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001RUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001TUS	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001XUS	i5-6300U	vPro	HD 520	4GBx1	15.6" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001YUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH002NUS	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001QUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001SUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH001VUS	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH0020US	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20FH002EUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad T560 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics

Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]

BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material

Display cover: PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the palm rest

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	13.2 hr	18.0 hr	22.7 hr
discrete model	13.5 hr	18.3 hr	24.3 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload

Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(SZ2-1) © Lenovo

ThinkPad T560 20FH (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH002JUS	i7-6600U	vPro	HD 520	8GBx2	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002DUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002FUS	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	MT	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002CUS	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002HUS	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002LUS	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002GUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16
20FH002MUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad T560 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics

Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]

BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material

Display cover: PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the palm rest

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	13.2 hr	18.0 hr	22.7 hr
discrete model	13.5 hr	18.3 hr	24.3 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload

Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

1-year depot / 3-year (1-yr battery) depot /
3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad T560 20FH (Discrete) - TopSeller

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH0030US	i5-6300U	vPro	940MX	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20FH0032US	i5-6300U	vPro	940MX	8GBx1	15.6" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20FH002XUS	i7-6600U	vPro	940MX	8GBx1	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20FH0031US	i7-6600U	vPro	940MX	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20FH002WUS	i7-6600U	vPro	940MX	8GBx1	15.6" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16
20FH002YUS	i7-6600U	vPro	940MX	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad T560 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600
i5-6300U		2.4 GHz	3 GHz	3MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor only, or
Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material — *Display cover:* PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the palm rest

Internal battery — *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery — Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Integrated model	13.2 hr	18.0 hr	22.7 hr
discrete model	13.5 hr	18.3 hr	24.3 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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Lenovo® ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541

ThinkPad W541 Platform Specifications

Processor

4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-4210M	2	4	2.6 GHz	3.2 GHz	3MB	DDR3L-1600	Intel HD Graphics 4600
i5-4340M			2.9 GHz	3.6 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4710MQ	4	8	2.5 GHz	3.5 GHz	6MB		
i7-4810MQ			2.8 GHz	3.8 GHz	6MB		
i7-4910MQ			2.9 GHz	3.9 GHz	8MB		
i7-4940MX			3.1 GHz	4 GHz	8MB		

Graphics

Intel HD Graphics 4600 in processor and
NVIDIA Quadro® K1100M or K2100M, 2GB memory;
supports external analog monitor via VGA and digital monitor via Mini DisplayPort / Thunderbolt™; supports three independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
3840x2160@60Hz (Thunderbolt); 1920x1200@60Hz (VGA)

Chipset

Mobile Intel QM87 Express Chipset

Memory

dual-core model: 16GB max[7], two 204-pin SO-DIMM sockets
quad-core model: 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported
All: PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™
All: removable, upgradable, supports the second disk

M.2 SSD *(opt)*

16GB M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Optical *(optional)*

DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay

One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access

Ethernet

Intel Ethernet Connection I217-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11b/g/n, Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model (mutually exclusive with M.2 SSD):

- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*

One of the following, configurable by model:

- AT&T® or Verizon® LTE (4G), contract required with service provider
- User selectable, contract required with service provider

Dimensions[3]

15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

6-cell: starting at 5.57 lb (2.53 kg); *9-cell:* starting at 5.95 lb (2.70 kg)

Case material

Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator

Battery type

Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10]

6-cell: up to 6.2 hr; *9-cell:* up to 11.1 hr

AC adapter

dual-core: 135W AC adapter; *quad-core:* 170W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad W541 20EF (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	RAID	Optical	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	NFC	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EF000HUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000KUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000NUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000PUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000JUS	i7-4810MQ	vPro	K2100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000LUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000MUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF001EUS	i7-4710MQ	No	K1100M	8GBx2	15.6" FHD	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	03/15
20EF001DUS	i7-4810MQ	vPro	K2100M	8GBx2	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	03/15
20EF002MUS	i7-4710MQ	No	K1100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	07/15
20EF002LUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	07/15
20EF002KUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	None	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002NUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002PUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002QUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002RUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad W541 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600
i5-4340M		2.9 GHz	3.6 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4910MQ		2.9 GHz	3.9 GHz	8MB	
i7-4940MX		3.1 GHz	4 GHz	8MB	

Graphics — Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory

Chipset — Mobile Intel QM87 Express Chipset

Memory
- *dual-core model:* 16GB max[7], two 204-pin SO-DIMM sockets
- *quad-core model:* 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported
- *All:* PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable

Display
- *Some:* 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio
- *Some:* 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Optical *(optional)* — DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay — One modular bay for removable devices (right side, cold swap), 9.5mm high

Ethernet — Intel Ethernet Connection I217-LM (Clarkville)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
- *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
- *7260 b/g/n+BT:* Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 a/b/g/n+BT:* Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 ac+BT:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *EM7355:* Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
- *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
- *Select:* User selectable, contract required with service provider

Dimensions[3] — *15.6" (WxDxH):* 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2] — *6-cell:* starting at 5.57 lb (2.53 kg); *9-cell:* starting at 5.95 lb (2.70 kg)

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery type — Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10] — *6-cell:* up to 6.2 hr; *9-cell:* up to 11.1 hr

AC adapter — *dual-core:* 135W AC adapter; *quad-core:* 170W AC adapter

Preload
- *Win8 / 8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- *Win8 / 8.1 64:* Windows 8 / 8.1 64-bit
- *Win8 / 8.1 P64:* Windows 8 / 8.1 Pro 64-bit
- *Win10 P64:* Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(KM15W-1) © Lenovo

ThinkPad W541 20EF (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	RAID	Optical	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	NFC	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EF000HUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000KUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000NUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000PUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000JUS	i7-4810MQ	vPro	K2100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000LUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF000MUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-depot	No	01/15
20EF001EUS	i7-4710MQ	No	K1100M	8GBx2	15.6" FHD	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	03/15
20EF001DUS	i7-4810MQ	vPro	K2100M	8GBx2	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	03/15
20EF002MUS	i7-4710MQ	No	K1100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	07/15
20EF002LUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-depot	No	07/15
20EF002KUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	None	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002NUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	512G SSD	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002PUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002QUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002RUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 DG Win7	3-depot	No	09/15
20EF002TUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 P64	3-depot	No	09/15
20EF002SUS	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	256G SSD eDrive	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 P64	3-depot	No	09/15
20EF002UUS	i7-4710MQ	No	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad W541 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600
i5-4340M		2.9 GHz	3.6 GHz	3MB	
i7-4600M		2.9 GHz	3.6 GHz	4MB	
i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB	
i7-4810MQ		2.8 GHz	3.8 GHz	6MB	
i7-4910MQ		2.9 GHz	3.9 GHz	8MB	
i7-4940MX		3.1 GHz	4 GHz	8MB	

Graphics — Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory

Chipset — Mobile Intel QM87 Express Chipset

Memory
- *dual-core model:* 16GB max[7], two 204-pin SO-DIMM sockets
- *quad-core model:* 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported
- *All:* PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable

Display
- *Some:* 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio
- *Some:* 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Optical *(optional)* — DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay — One modular bay for removable devices (right side, cold swap), 9.5mm high

Ethernet — Intel Ethernet Connection I217-LM (Clarkville)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
- *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
- *7260 b/g/n+BT:* Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 a/b/g/n+BT:* Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 ac+BT:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *EM7355:* Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
- *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
- *Select:* User selectable, contract required with service provider

Dimensions[3] — *15.6" (WxDxH):* 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2] — *6-cell:* starting at 5.57 lb (2.53 kg); *9-cell:* starting at 5.95 lb (2.70 kg)

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery type — Li-Ion 6-cell *(56Wh)* or 9-cell *(99.9Wh)*, HW Authentication

Max battery life[10] — *6-cell:* up to 6.2 hr; *9-cell:* up to 11.1 hr

AC adapter — *dual-core:* 135W AC adapter; *quad-core:* 170W AC adapter

Preload
- *Win8 / 8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- *Win8 / 8.1 64:* Windows 8 / 8.1 64-bit
- *Win8 / 8.1 P64:* Windows 8 / 8.1 Pro 64-bit
- *Win10 P64:* Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information



Lenovo® ThinkPad W550s



Lenovo ThinkPad W550s



Lenovo ThinkPad W550s



Lenovo ThinkPad W550s



Lenovo ThinkPad W550s

ThinkPad W550s Platform Specifications

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5300U	2	4	2.3 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500
i7-5500U			2.4 GHz	3 GHz	4MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics

Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

Single-sided M.2 SSD, via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg

Case material

Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the palm rest, swipe sensor

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	12.7 hr	17.3 hr	21.8 hr

AC adapter

65W Slim or 65W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US) or EPEAT Silver (WE);
ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad W550s 20E2 (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20E2000TUS	i7-5500U	No	K620M	8GBx1	15.5" 3K IPS	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000VUS	i7-5500U	No	K620M	8GBx2	15.5" 3K IPS	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000XUS	i7-5500U	No	K620M	8GBx1	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000YUS	i7-5500U	No	K620M	8GBx1	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E20010US	i7-5500U	No	K620M	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E20017US	i7-5500U	No	K620M	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	None	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000QUS	i7-5600U	vPro	K620M	8GBx1	15.5" 3K IPS	MT	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000RUS	i7-5600U	vPro	K620M	8GBx2	15.5" 3K IPS	MT	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000SUS	i7-5600U	vPro	K620M	8GBx1	15.5" 3K IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000UUS	i7-5600U	vPro	K620M	8GBx2	15.6" FHD	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E2000WUS	i7-5600U	vPro	K620M	8GBx1	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(48wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20E20019US	i7-5600U	vPro	K620M	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	03/15
20E2001AUS	i7-5600U	vPro	K620M	8GBx1	15.6" FHD	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	03/15
20E2001BUS	i7-5500U	No	K620M	8GBx1	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	04/15
20E2001CUS	i7-5500U	No	K620M	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win8.1 DG Win7	3-depot	No	04/15
20E20023US	i7-5500U	No	K620M	8GBx1	15.5" 3K IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	09/15
20E20021US	i7-5500U	No	K620M	8GBx1	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	65W	Win10 DG Win7	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad W550s Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Internal battery — *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery — Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	12.7 hr	17.3 hr	21.8 hr

AC adapter — 65W Slim or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

ThinkPad W550s 20E2 (Discrete) - TopSeller (Windows 10)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20E20022US	i7-5500U	No	K620M	8GBx1	15.5" 3K IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad W550s Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 315 nits

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — Single-sided M.2 SSD, via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm
15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the palm rest, swipe sensor

Internal battery — *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery — Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	12.7 hr	17.3 hr	21.8 hr

AC adapter — 65W Slim or 65W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(SZ1W-4) © Lenovo



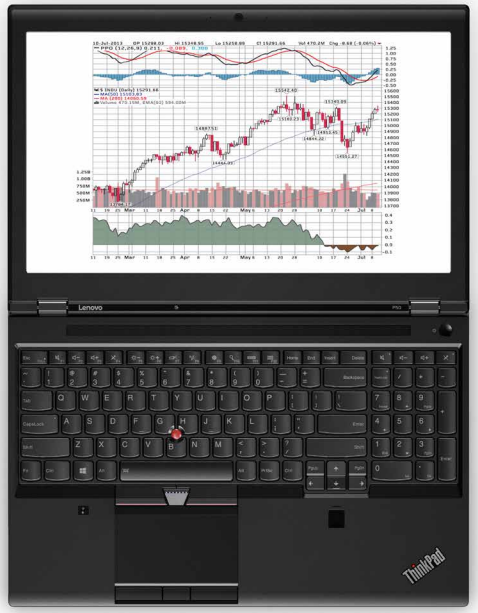
Lenovo® ThinkPad P50



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ThinkPad P50 Platform Specifications

Processor

6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-6700HQ	4	8	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Intel HD Graphics 530
i7-6820HQ			2.7 GHz	3.6 GHz	8MB		
E3-1505M v5			2.8 GHz	3.7 GHz	8MB		Intel HD Graphics P530
E3-1535M v5			2.9 GHz	3.8 GHz	8MB		

Graphics

Intel HD Graphics 530 or P530 in processor and
NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory);
supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™;
supports four independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI)

Chipset

Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory

64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 45% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 178° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 220 nits

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card

Micro-SIM card slot

Dimensions[3]

WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight[2]

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case material

Display cover: Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

3-button TrackPoint® pointing device and
3-button crystal silk surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style fingerprint reader on the palm rest

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery

Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	7.1 hr	9.7 hr
Hybrid Graphics	9.6 hr	13.2 hr

AC adapter

170W AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty[12]

One of the following, configurable by model:

- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad P50 20EN (Discrete) - TopSeller

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN001DUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001EUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001FUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001QUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001RUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0012US	i7-6700HQ	No	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0013US	i7-6700HQ	No	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0014US	i7-6700HQ	No	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	1T 5400	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0015US	i7-6700HQ	No	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0016US	i7-6820HQ	vPro	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0017US	i7-6820HQ	vPro	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	1T 5400	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN0018US	i7-6820HQ	vPro	M1000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad P50 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1535M v5		2.9 GHz	3.8 GHz	8MB	

Graphics — Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory)

Chipset — Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory — 64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 220 nits

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — Up to 3 drives (two M.2 SSD and one HDD)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical — None

Ethernet — *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional* — Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card — Micro-SIM card slot

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Dimensions[3] — *WxDxH:* 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight[2]

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case material — *Display cover:* Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery — Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	7.1 hr	9.7 hr
Hybrid Graphics	9.6 hr	13.2 hr

AC adapter — 170W AC adapter

Preload — *Win7 P64:* Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WT1-1) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN0019US	i7-6820HQ	vPro	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001AUS	i7-6820HQ	vPro	M2000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001BUS	i7-6820HQ	vPro	M2000M	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001CUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001SUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN001TUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN002FUS	i7-6700HQ	No	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN002HUS	i7-6700HQ	No	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN002KUS	i7-6820HQ	vPro	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15
20EN002MUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad P50 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1535M v5		2.9 GHz	3.8 GHz	8MB	

Graphics

Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory)

Chipset

Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory

64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 220 nits

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional*

Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card

Micro-SIM card slot

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Dimensions[3]

WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight[2]

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case material

Display cover: Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style fingerprint reader on the palm rest

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery

Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	7.1 hr	9.7 hr
Hybrid Graphics	9.6 hr	13.2 hr

AC adapter

170W AC adapter

Preload

Win7 P64: Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WT1-2) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller (Windows 10)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN002QUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" 4K IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001GUS	i7-6700HQ	No	M1000M	8GBx1 non-ECC	15.6" FHD IPS	MT	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001HUS	i7-6700HQ	No	M1000M	8GBx1 non-ECC	15.6" FHD IPS	MT	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001JUS	i7-6820HQ	vPro	M1000M	8GBx1 non-ECC	15.6" FHD IPS	MT	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001KUS	i7-6820HQ	vPro	M1000M	8GBx1 non-ECC	15.6" FHD IPS	MT	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001LUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	MT	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001MUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	MT	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001NUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	MT	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN001PUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	MT	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-depot	No	11/15
20EN002GUS	i7-6700HQ	No	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-depot	No	11/15
20EN002JUS	i7-6700HQ	No	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-depot	No	11/15
20EN002LUS	i7-6820HQ	vPro	M1000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad P50 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1535M v5		2.9 GHz	3.8 GHz	8MB	

Graphics — Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory)

Chipset — Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory — 64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 220 nits

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — Up to 3 drives (two M.2 SSD and one HDD)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical — None

Ethernet — *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional* — Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card — Micro-SIM card slot

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Dimensions[3] — *WxDxH:* 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight[2]

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case material — *Display cover:* Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery — Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	7.1 hr	9.7 hr
Hybrid Graphics	9.6 hr	13.2 hr

AC adapter — 170W AC adapter

Preload — *Win7 P64:* Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WT1-3) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller (Windows 10) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN002NUS	i7-6820HQ	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-depot	No	11/15
20EN002PUS	E3-1505M v5	vPro	M2000M	16GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad P50 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1535M v5		2.9 GHz	3.8 GHz	8MB	

Graphics — Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory)

Chipset — Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory — 64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 220 nits

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — Up to 3 drives (two M.2 SSD and one HDD)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical — None

Ethernet — *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional* — Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card — Micro-SIM card slot

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Dimensions[3] — *WxDxH:* 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight[2]

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case material — *Display cover:* Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery — Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	7.1 hr	9.7 hr
Hybrid Graphics	9.6 hr	13.2 hr

AC adapter — 170W AC adapter

Preload — *Win7 P64:* Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad P50s



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ThinkPad P50s Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6300U	2	4	2.4 GHz	3 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics

Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory);
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable);
4096x2160@24Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two DDR3L SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS,
250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio, 160° viewing angle
Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS,
350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)*

In-cell touch, supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high,
Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model:

- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455,
  Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S,
  HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material

Display cover: PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby,
faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the palm rest

Internal battery

Optional: Integrated Li-Polymer 3-cell *(44Wh)*

External battery

Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Max battery life	12.0 hr	16.3 hr	20.5 hr

AC adapter

65W Slim AC adapter or 65W AC adapter

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty[12]

One of the following, configurable by model:

- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad P50s 20FL (Discrete) - TopSeller

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FL000JUS	i7-6500U	No	M500M	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	01/16
20FL000NUS	i7-6600U	vPro	M500M	8GBx2	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	01/16
20FL000GUS	i7-6500U	No	M500M	8GBx2	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	01/16
20FL000HUS	i5-6300U	vPro	M500M	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(72wh)	65W	Win10 DG Win7	3-depot	No	01/16
20FL000KUS	i7-6500U	No	M500M	8GBx1	15.6" FHD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	01/16
20FL000LUS	i7-6500U	No	M500M	8GBx1	15.6" FHD IPS	No	1T 5400	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	65W	Win10 DG Win7	3-depot	No	01/16
20FL000MUS	i7-6500U	No	M500M	8GBx2	15.6" FHD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad P50s Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6300U	2	2.4 GHz	3 GHz	3MB	DDR3L-1600
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)

Chipset — Intel SoC (System on Chip) platform

Memory — 32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets

Display — *Some:* 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS
Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS

Multi-touch *(opt)* — In-cell touch, supports 10-finger gesture

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *BCM ac+BT:* 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm

Weight[2]

Models	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg

Case material — *Display cover:* PPS; *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the palm rest

Internal battery — *Optional:* Integrated Li-Polymer 3-cell *(44Wh)*

External battery — Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3 + 3-cell*	*3 + 6-cell 48Wh*	*3 + 6-cell 72Wh*
Max battery life	12.0 hr	16.3 hr	20.5 hr

AC adapter — 65W Slim AC adapter or 65W AC adapter

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad P70



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ThinkPad P70 Platform Specifications

Processor — 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-6700HQ	4	8	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Intel HD Graphics 530
i7-6820HQ			2.7 GHz	3.6 GHz	8MB		
E3-1505M v5			2.8 GHz	3.7 GHz	8MB		Intel HD Graphics P530
E3-1575M v5			3 GHz	3.9 GHz			Intel Iris™ Pro Graphics P580

Graphics — Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports five independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI)

Chipset — Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory — 64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display
- *Some:* 17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle
- *Some:* 17.3" (439mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 90% gamut, 170° viewing angle

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™

Optical *(optional)* — DVD burner, 9.5mm high, fixed, tray-in

Ethernet
- *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
- *vPro model:* Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card — Micro-SIM card slot

Dimensions[3]
- *WxDxH:* 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm
- *WxDxH(Touch):* 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm

Weight[2]
- *Non-touch model:* from 7.3 lb (3.3kg);
- *Multi-touch model:* from 8.1 lb (3.7kg)

Case material
- *Display cover:* Glass-Fiber + PPS;
- *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

ThinkEngine — Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery — Li-Ion 8-cell *(96Wh)*

Max battery life[10] (*MobileMark® 2014*)

Mode	*Discrete Graphics*	*Hybrid Graphics*
Max battery life	8.5 hr	10.8 hr

AC adapter — 170W or 230W AC adapter

Preload

Some: Genuine Windows® 7 Professional 64

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty[12] *One of the following, configurable by model:*
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad P70 20ER (Discrete) - TopSeller

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ER000NUS	E3-1505M v5	vPro	M3000M	16GBx1 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-depot	No	11/15
20ER000RUS	i7-6820HQ	vPro	M3000M	16GBx1 non-ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-depot	No	11/15
20ER000WUS	i7-6820HQ	vPro	M4000M	16GBx1 non-ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	None	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-depot	No	11/15
20ER000XUS	E3-1505M v5	vPro	M4000M	16GBx1 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	None	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-depot	No	11/15
20ER000KUS	i7-6820HQ	vPro	M3000M	8GBx1 non-ECC	17.3" FHD IPS	MT	Pen	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER000FUS	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER000GUS	i7-6700HQ	No	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER000HUS	i7-6820HQ	vPro	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER000JUS	i7-6820HQ	vPro	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER000LUS	E3-1505M v5	vPro	M600M	8GBx1 ECC	17.3" FHD IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	11/15
20ER000MUS	E3-1505M v5	vPro	M3000M	8GBx1 ECC	17.3" FHD IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	11/15
20ER000SUS	i7-6820HQ	vPro	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15

- *For detailed platform specifications, please see ThinkPad P70 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1575M v5		3 GHz	3.9 GHz		

Graphics

Intel HD Graphics 530, Intel HD Graphics P530, or
Intel Iris™ Pro Graphics P580 in processor and
NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory),
M4000M (4GB memory), or M5000M (8GB memory)

Chipset

Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory

64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display

Some: 17.3" (439mm) FHD (1920x1080), IPS,
300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle
Some: 17.3" (439mm) 4K (3840x2160), IPS,
300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display

Storage

Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical *(optional)*

DVD burner, 9.5mm high, fixed, tray-in

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]
Bluetooth™

11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional*

Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card *(opt)*

Micro-SIM card, Verizon® LTE (4G), contract required with service provider

Dimensions[3]

WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm
WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm

Weight[2]

Non-touch model: from 7.3 lb (3.3kg); *Multi-touch model:* from 8.1 lb (3.7kg)

Case material

Display cover: Glass-Fiber + PPS; *Bottom:* Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style fingerprint reader on the keyboard bezel

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery

Li-Ion 8-cell *(96Wh)*

Max battery life[10]

Mode	*Discrete Graphics*	*Hybrid Graphics*
MobileMark® 2014	8.5 hr	10.8 hr

AC adapter

170W or 230W AC adapter

Preload

Win7 P64: Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

3-year (1-yr battery) depot / 3-year (1-year battery) onsite /
3-year (1-year battery) onsite, OID

(PY1-1) © Lenovo

ThinkPad P70 20ER (Discrete) - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ER000TUS	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	1T 5400	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER000UUS	i7-6700HQ	No	M3000M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER000VUS	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	None	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER000YUS	i7-6820HQ	vPro	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	1T 5400	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER002GUS	E3-1505M v5	vPro	M600M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER002KUS	i7-6700HQ	No	M600M	16GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	170W	Win10 DG Win7	3-depot	No	10/15
20ER002LUS	i7-6820HQ	vPro	M3000M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15
20ER002MUS	E3-1505M v5	vPro	M3000M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 DG Win7	3-depot	No	10/15

- *For detailed platform specifications, please see ThinkPad P70 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1575M v5		3 GHz	3.9 GHz		

Graphics

Intel HD Graphics 530, Intel HD Graphics P530, or
Intel Iris™ Pro Graphics P580 in processor and
NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory),
M4000M (4GB memory), or M5000M (8GB memory)

Chipset

Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory

64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display

Some: 17.3" (439mm) FHD (1920x1080), IPS,
300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle
Some: 17.3" (439mm) 4K (3840x2160), IPS,
300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display

Storage

Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)
Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical *(optional)*

DVD burner, 9.5mm high, fixed, tray-in

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional*

Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card *(opt)*

Micro-SIM card, Verizon® LTE (4G), contract required with service provider

Dimensions[3]

WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm
WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm

Weight[2]

Non-touch model: from 7.3 lb (3.3kg); *Multi-touch model:* from 8.1 lb (3.7kg)

Case material

Display cover: Glass-Fiber + PPS; *Bottom:* Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™

3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style fingerprint reader on the keyboard bezel

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery

Li-Ion 8-cell *(96Wh)*

Max battery life[10]

Mode	*Discrete Graphics*	*Hybrid Graphics*
MobileMark® 2014	8.5 hr	10.8 hr

AC adapter

170W or 230W AC adapter

Preload

Win7 P64: Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12]

3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(PY1-2) © Lenovo

ThinkPad P70 20ER (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ER000PUS	i7-6820HQ	vPro	M600M	8GBx1 non-ECC	17.3" FHD IPS	MT	Pen	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	170W	Win10 P64	3-depot	No	10/15
20ER000QUS	i7-6820HQ	vPro	M3000M	8GBx1 non-ECC	17.3" FHD IPS	MT	Pen	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	230W	Win10 P64	3-depot	No	10/15
20ER002FUS	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	170W	Win10 P64	3-depot	No	10/15
20ER002NUS	i7-6700HQ	No	M600M	16GBx1 non-ECC	17.3" FHD IPS	No	None	500G 7200	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	170W	Win10 P64	3-depot	No	10/15
20ER002HUS	E3-1505M v5	vPro	M3000M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 P64	3-depot	No	10/15
20ER002JUS	i7-6820HQ	vPro	M3000M	16GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 P64	3-depot	No	10/15

- *For detailed platform specifications, please see ThinkPad P70 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133
i7-6820HQ		2.7 GHz	3.6 GHz	8MB	
E3-1505M v5		2.8 GHz	3.7 GHz	8MB	
E3-1575M v5		3 GHz	3.9 GHz		

Graphics — Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)

Chipset — Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)

Memory — 64GB max[7] / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

Display
- *Some:* 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle
- *Some:* 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)
- *Some:* M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS

Optical *(optional)* — DVD burner, 9.5mm high, fixed, tray-in

Ethernet
- *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
- *vPro model:* Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional* — Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card *(opt)* — Micro-SIM card, Verizon® LTE (4G), contract required with service provider

Dimensions[3]
- *WxDxH:* 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm
- *WxDxH(Touch):* 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm

Weight[2] — *Non-touch model:* from 7.3 lb (3.3kg); *Multi-touch model:* from 8.1 lb (3.7kg)

Case material — *Display cover:* Glass-Fiber + PPS; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports — Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™ — 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

Battery — Li-Ion 8-cell *(96Wh)*

Max battery life[10]

Mode	*Discrete Graphics*	*Hybrid Graphics*
MobileMark® 2014	8.5 hr	10.8 hr

AC adapter — 170W or 230W AC adapter

Preload
- *Win7 P64:* Genuine Windows® 7 Professional 64
- *Win10 DG Win7:* Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- *Win10 P64:* Windows 10 Pro 64

Limited warranty[12] — 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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Lenovo® ThinkPad 11e



Lenovo ThinkPad 11e



Lenovo ThinkPad 11e

ThinkPad 11e 20D9 (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20D90008US	Cel N2920	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/14
20D90005US	Cel N2930	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	09/14
20D90016US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	12/14
20D9001BUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	12/14
20D9001KUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20D9001SUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20D9001TUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20D9001UUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20D9001VUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20D9001WUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	64G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15

Processor — **Intel® Celeron® processor N2920**, **N2930**, or **N2940**

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics
N2930			1.83 GHz	2.16 GHz		DDR3L-1333	
N2940			1.83 GHz	2.25 GHz			

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical — None

Storage — *Some:* SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Widescreen display — **11.6"** (295mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch — None

Hinge — Normal hinge, 180 degree

Camera *(optional)* — HD720p resolution, low light sensitive

Graphics — **Intel HD Graphics** in processor, supports external digital monitor via HDMI™ supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Dimensions[3] — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2] — from 3.28 lb (1.49kg)

Case color — *Display cover:* Graphite Black or Silver;
Bottom: Graphite Black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic;
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type — Integrated Lithium Ion 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	7.0 hr	-
MobileMark 2012	6.0 hr	6.5 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

ThinkLight™ — None

Chipset — **Intel SoC (System on Chip) platform**

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons — Power button, volume control button

WLAN[4] — *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN — None

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

NFC — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro *(optional)* — None

Fingerprint reader — None

Limited warranty[12] — **1-year** - depot repair service / service upgrades[22] available
For Lenovo service upgrade options, please go to QP-TA sheet

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

US model(s) withdrawn effective March 2015

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ThinkPad 11e 20D9 (TopSeller) - Windows 8

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20D90009US	Cel N2920	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	05/14
20D9000MUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	05/14
20D9000GUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/14
20D9000AUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	09/14
20D9000NUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	09/14
20D9000FUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	09/14
20D90015US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	12/14
20D90017US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	12/14
20D9001EUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	02/15
20D9001HUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win8.1 64	1-depot	No	02/15

Processor — **Intel® Celeron® processor N2920**, **N2930**, or **N2940**

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics
N2930			1.83 GHz	2.16 GHz		DDR3L-1333	
N2940			1.83 GHz	2.25 GHz			

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical — None

Storage — *Some:* SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Widescreen display — **11.6"** (295mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch — None

Hinge — Normal hinge, 180 degree

Camera *(optional)* — HD720p resolution, low light sensitive

Graphics — **Intel HD Graphics** in processor, supports external digital monitor via HDMI™ supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Dimensions[3] — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2] — from 3.28 lb (1.49kg)

Case color — *Display cover:* Graphite Black or Silver;
Bottom: Graphite Black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic;
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type — Integrated Lithium Ion 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	7.0 hr	-
MobileMark 2012	6.0 hr	6.5 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

ThinkLight™ — None

Chipset — **Intel SoC (System on Chip) platform**

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons — Power button, volume control button

WLAN[4] — *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN — None

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

NFC — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro *(optional)* — None

Fingerprint reader — None

Limited warranty[12] — **1-year** - depot repair service / service upgrades[22] available
For Lenovo service upgrade options, please go to QP-TA sheet

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

US model(s) withdrawn effective March 2015

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ThinkPad 11e 20D9 (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20D9001XUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D9001YUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D90020US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D90021US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	64G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D90022US	Cel N2940	No	Intel HD	8GBx1	11.6" HD	64G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D90023US	Cel N2940	No	Intel HD	8GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20D90024US	Cel N2940	No	Intel HD	8GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15

Processor — **Intel® Celeron® processor N2920**, **N2930**, or **N2940**

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics
N2930			1.83 GHz	2.16 GHz		DDR3L-1333	
N2940			1.83 GHz	2.25 GHz			

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical — None

Storage — *Some:* SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Widescreen display — **11.6"** (295mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch — None

Hinge — Normal hinge, 180 degree

Camera *(optional)* — HD720p resolution, low light sensitive

Graphics — **Intel HD Graphics** in processor, supports external digital monitor via HDMI™ supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Dimensions[3] — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2] — from 3.28 lb (1.49kg)

Case color — *Display cover:* Graphite Black or Silver;
Bottom: Graphite Black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic;
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery type — Integrated Lithium Ion 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	7.0 hr	-
MobileMark 2012	6.0 hr	6.5 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

ThinkLight™ — None

Chipset — **Intel SoC (System on Chip) platform**

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons — Power button, volume control button

WLAN[4] — *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN — None

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

NFC — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro *(optional)* — None

Fingerprint reader — None

Limited warranty[12] — **1-year** - depot repair service / service upgrades[22] available
For Lenovo service upgrade options, please go to QP-TA sheet

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

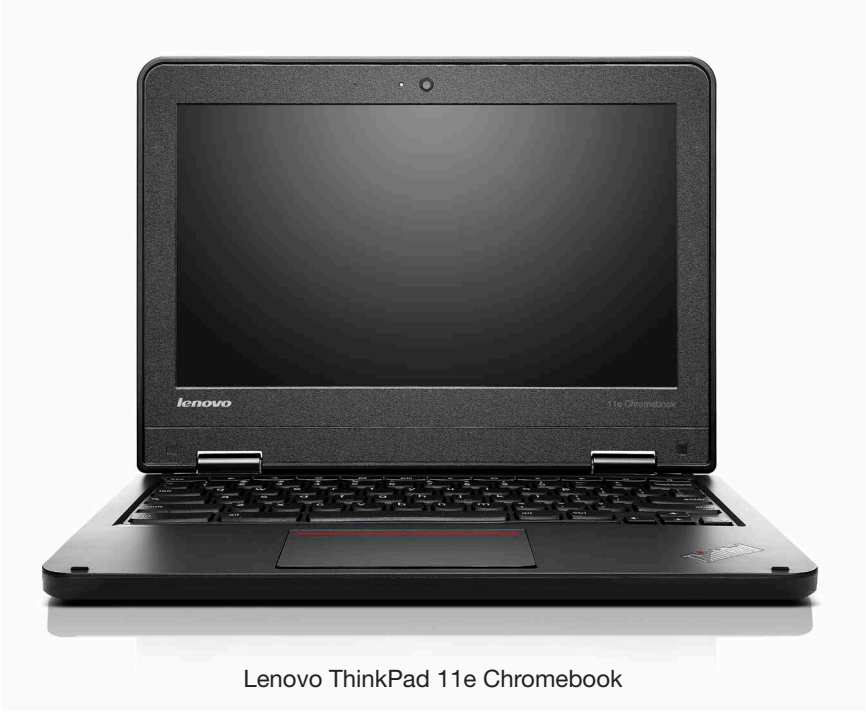
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Lenovo® ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook

ThinkPad 11e Chromebook 20DU (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DU0003US	Cel N2930	No	Intel HD	4GBx1	11.6" HD	16GB eMMC	7260 ac+BT	Black	720p	None	4	45W	Google Chrome	1-depot	No	06/14
20DU0009US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	16GB eMMC	7260 ac+BT	Black	720p	None	4	45W	Google Chrome	1-depot	No	12/14

Processor	**Intel® Celeron® processor N2920**, **N2930**, or **N2940**

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics
N2930			1.83 GHz	2.16 GHz		DDR3L-1333	
N2940			1.83 GHz	2.25 GHz			

Memory	2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets
Optical	None
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board
Widescreen display	**11.6"** (295mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Multi-touch	None
Hinge	Normal hinge, 180 degree
Camera	HD720p resolution, low light sensitive
Graphics	**Intel HD Graphics** in processor, supports external digital monitor via HDMI™ supports dual independent display; *Max resolution:* 1920x1080 (HDMI)@60Hz
Dimensions[3]	*11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm
Weight[2]	from 3.09 lb (1.4kg)
Case color	*Display cover:* Graphite Black or Silver; *Bottom:* Graphite Black
Case material	*Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic; *Bottom:* PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery type	Integrated Lithium Ion 4-cell *(35Wh)*
Max battery life[10]	more than 8 hours
AC adapter	45-watt AC adapter
Audio support	HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack
Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Touchpad	Buttonless touchpad below keyboard, multi-touch
ThinkLight™	None
Chipset	**Intel SoC (System on Chip) platform**
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 2.0, HDMI
Control buttons	Power button, volume control button
WLAN[4]	*11a/b/g/n+BT:* ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 card *7260 ac+BT:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card
WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	None
NFC	None
Security	Security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
vPro *(optional)*	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available *For Lenovo service upgrade options, please go to QP-TA sheet*
Preload	Google Chrome OS
Mil-Spec test	MIL-STD-810G military certification
Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

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Lenovo® ThinkPad 11e (2nd Gen)



Lenovo ThinkPad 11e (2nd Gen)



Lenovo ThinkPad 11e (2nd Gen)

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20ED0006US	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	03/15
20ED000DUS	A4-6210	Radeon R3	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	03/15
20ED000EUS	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	03/15
20ED0009US	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/15
20ED000AUS	E2-6110	Radeon R2	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/15
20ED000CUS	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/15

Processor

Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics

Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 4096X2160 (HDMI)@30Hz

Chipset

Intel or AMD SoC (System on Chip) platform

Memory

Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display

11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch

None

Hinge

Normal hinge, 180 degree

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN

None

Dimensions[3]

11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2]

from 3.3 lb (1.49kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad

Buttonless touchpad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader

None

Battery type

Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter

45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20ED000RUS	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000SUS	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000TUS	E2-6110	Radeon R2	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000UUS	E2-6110	Radeon R2	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000VUS	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000WUS	E2-6110	Radeon R2	8GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000XUS	E2-6110	Radeon R2	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED000YUS	A4-6210	Radeon R3	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED0010US	E2-6110	Radeon R2	4GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED0011US	A4-6210	Radeon R3	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED0012US	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20ED0013US	E2-6110	Radeon R2	8GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15

Processor

Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics

Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 4096X2160 (HDMI)@30Hz

Chipset

Intel or AMD SoC (System on Chip) platform

Memory

Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display

11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch

None

Hinge

Normal hinge, 180 degree

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN

None

Dimensions[3]

11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2]

from 3.3 lb (1.49kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad

Buttonless touchpad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader

None

Battery type

Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter

45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller (Win8)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20ED0002US	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	03/15
20ED0005US	A4-6210	Radeon R3	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	03/15
20ED0007US	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	03/15
20ED0003US	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/15
20ED0004US	E2-6110	Radeon R2	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/15
20ED0008US	E2-6110	Radeon R2	2GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/15
20ED000FUS	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/15

Processor

Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics
Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 4096X2160 (HDMI)@30Hz

Chipset
Intel or AMD SoC (System on Chip) platform

Memory
Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch
None

Hinge
Normal hinge, 180 degree

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical
None

Ethernet
Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN
None

Dimensions[3]
11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2]
from 3.3 lb (1.49kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons
Power button, volume control button

Camera
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard
ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad
Buttonless touchpad below keyboard, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader
None

Battery type
Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter
45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller (Win10)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20ED0016US	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED0017US	E2-6110	Radeon R2	8GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED0018US	E2-6110	Radeon R2	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED0019US	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001AUS	E2-6110	Radeon R2	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001BUS	A4-6210	Radeon R3	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001CUS	A4-6210	Radeon R3	8GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001DUS	A4-6210	Radeon R3	8GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001EUS	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001FUS	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20ED001GUS	A4-6210	Radeon R3	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15

Processor — Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics — Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz

Chipset — Intel or AMD SoC (System on Chip) platform

Memory — *Intel models:* 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display — 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical — None

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] — 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN — None

Dimensions[3] — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2] — from 3.3 lb (1.49kg)

Case color — Graphite Black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons — Power button, volume control button

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader — None

Battery type — Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter — 45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20E6000LUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win7 P64	1-depot	No	04/15
20E6000NUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20E6000PUS	5Y10c	HD 5300	8GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20E6000QUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20E6000RUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20E6000SUS	5Y10c	HD 5300	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15
20E6000TUS	5Y10c	HD 5300	8GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	No	08/15

Processor

Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics
Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 4096X2160 (HDMI)@30Hz

Chipset
Intel or AMD SoC (System on Chip) platform

Memory
Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch
None

Hinge
Normal hinge, 180 degree

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical
None

Ethernet
Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN
None

Dimensions[3]
11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2]
from 3.3 lb (1.49kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons
Power button, volume control button

Camera
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard
ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad
Buttonless touchpad below keyboard, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader
None

Battery type
Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter
45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20E6000FUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	04/15
20E6000GUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	04/15
20E6000JUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	04/15
20E6000KUS	5Y10c	HD 5300	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/15
20E6000HUS	5Y10c	HD 5300	4GBx1	11.6" HD	120G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	06/15

Processor — Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics — Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz

Chipset — Intel or AMD SoC (System on Chip) platform

Memory — *Intel models:* 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display — 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical — None

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4] — 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN — None

Dimensions[3] — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2] — from 3.3 lb (1.49kg)

Case color — Graphite Black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons — Power button, volume control button

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader — None

Battery type — Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter — 45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*

- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller (Win10)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20E6000UUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E6000VUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E6000WUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E6000XUS	5Y10c	HD 5300	4GBx1	11.6" HD	64G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E6000YUS	5Y10c	HD 5300	8GBx1	11.6" HD	64G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E60010US	5Y10c	HD 5300	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E60011US	5Y10c	HD 5300	8GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E60012US	5Y10c	HD 5300	8GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15

Processor

Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor

Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300
A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics
E2-6110	4	1.5 GHz	-	2MB		Radeon R2 Graphics

Graphics

Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 4096X2160 (HDMI)@30Hz

Chipset

Intel or AMD SoC (System on Chip) platform

Memory

Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display

11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch

None

Hinge

Normal hinge, 180 degree

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN

None

Dimensions[3]

11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm

Weight[2]

from 3.3 lb (1.49kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad

Buttonless touchpad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader

None

Battery type

Integrated Lithium Polymer 4-cell *(35Wh)*

Max battery life[10]

Models	*Windows 7*	*Windows 8*
MobileMark® 2012	6.6 hr	6.68 hr

AC adapter

45-watt AC adapter

Preload

Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Reach
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Lenovo Photo Editor (Win8.1 model)
- Lenovo Video Editor (Win8.1 model)
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad 11e (3rd Gen)



Lenovo ThinkPad 11e (3rd Gen)



Lenovo ThinkPad 11e (3rd Gen)

ThinkPad 11e (3rd Gen) 20GB (TopSeller) - Win10

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GB000JUS	Cel N3150	Intel HD	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000KUS	Cel N3150	Intel HD	8GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000LUS	Cel N3150	Intel HD	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000MUS	Cel N3150	Intel HD	8GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000NUS	Cel N3150	Intel HD	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000PUS	i3-6100U	HD 520	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000QUS	i3-6100U	HD 520	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000RUS	i3-6100U	HD 520	8GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000SUS	i3-6100U	HD 520	8GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000TUS	Cel N3150	Intel HD	2GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16
20GB000UUS	i3-6100U	HD 520	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	02/16

Processor

Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics
Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510
i3-6100U			2.3 GHz	-	3MB		Intel HD graphics 520

Graphics
Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 1920X1080 (HDMI)@30Hz

Chipset
Intel SoC (System on Chip) platform

Memory
2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket

Display
11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

Multi-touch
None

Hinge
Normal hinge, 180 degree

Storage
M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical
None

Ethernet
Realtek RTL8111GUS-CG Gigabit Network Connection

WLAN[4]
One of the following, configurable by model:
- 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN
None

Dimensions[3]
WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm

Weight[2]
from 3.3 lb (1.5kg)

Case color
Display cover: Graphite Black or Silver; *Bottom:* Graphite Black

Case material
Display cover: PC+40%GF+TPU; *Bottom:* PCC

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, HDMI, Ethernet (RJ-45)

Control buttons
Power button, volume control button

Camera
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack

Keyboard
ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad
Buttonless touchpad below keyboard, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
None

Battery
Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10]
MobileMark® 2014: 11.53 hr

AC adapter
45-watt AC adapter

Preload
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad 11e (3rd Gen) Chromebook



Lenovo ThinkPad 11e (3rd Gen) Chromebook



Lenovo ThinkPad 11e (3rd Gen) Chromebook

ThinkPad 11e (3rd Gen) Chromebook 20GF (TopSeller)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GF0000US	Cel N3150	Intel HD	2GBx1	11.6" HD	16GB eMMC	7265 ac+BT	Black	720p	None	3	45W	Google Chrome	1-depot	No	03/16
20GF0001US	Cel N3150	Intel HD	4GBx1	11.6" HD	16GB eMMC	7265 ac+BT	Black	720p	None	3	45W	Google Chrome	1-depot	No	03/16

Processor	Intel® Celeron® processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	LPDDR3-1600	Intel HD graphics

Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz
Chipset	Intel SoC (System on Chip) platform
Memory	2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Multi-touch	None
Hinge	Normal hinge, 180 degree
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board
Optical	None
Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection
WLAN[4]	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WWAN	None

Dimensions[3]	*WxDxH:* 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm
Weight[2]	from 3.3 lb (1.5kg)
Case color	*Display cover:* Graphite Black or Silver; *Bottom:* Graphite Black
Case material	*Display cover:* PC+40%GF+TPU; *Bottom:* PCC
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0 (one Always On), HDMI
Control buttons	None
Camera	HD720p resolution, low light sensitive, fixed focus
Audio support	Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Touchpad	Buttonless touchpad below keyboard, multi-touch
Security	Security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
vPro	None
Fingerprint reader	None
Battery	Integrated Lithium Polymer 3-cell *(42Wh)*
Max battery life[10]	Up to 12 hr
AC adapter	45-watt AC adapter
Preload	Google Chrome OS
Limited warranty[12]	1-year depot repair service
Mil-Spec test	MIL-STD-810G military certification
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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Lenovo® ThinkPad 13



Lenovo ThinkPad 13



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Lenovo ThinkPad 13

ThinkPad 13 Platform Specifications

Processor

Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3855U	2	2	1.6 GHz	-	2MB	DDR4-2133	Intel HD graphics 510
i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		

Graphics
Intel HD Graphics 510 or 520 in processor,
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 1920x1080 (HDMI)@60Hz, 3840X2160 (USB Type-C)@60Hz

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets

Display
Some: 13.3" (338mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 220 nits, 16:9 aspect ratio, 600:1 contrast ratio, 170° viewing angle

Multi-touch
None

Storage
M.2 SSD / SATA 6.0Gb/s

Optical
None

Ethernet
Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]
One of the following, configurable by model:
- 11ac+BT4.0, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
- 11ac+BT4.1, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™
Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN
None

Dimensions[3]
WxDxH (silver): 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm
WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm

Weight[2]
from 3.17 lb / 1.44 kg

Case color
Pure Black or Silver

Case material
Black cover: PC/ABS plastic;
Silver cover: Aluminum

Smart card reader
None

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), one USB Type-C,
HDMI, Lenovo OneLink+ connector

Camera
HD720p resolution, low light sensitive, fixed focus

Audio support
HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 /
dual array microphone, combo audio/microphone jack

Keyboard
ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Swipe style fingerprint reader on the keyboard bezel

Battery
Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10]
MobileMark® 2014: 11.6 hr

AC adapter
45-watt AC adapter

Preload
Some: Genuine Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

ThinkPad 13 20GJ (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GJ000AUS	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000UUS	i3-6100U	No	HD 520	4GBx2	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000XUS	Cel 3855U	No	HD 510	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0011US	i5-6200U	No	HD 520	4GBx2	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000MUS	Cel 3855U	No	HD 510	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0019US	i5-6300U	vPro	HD 520	4GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0031US	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0039US	i5-6300U	vPro	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003BUS	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003CUS	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003WUS	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003YUS	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000FUS	i3-6100U	No	HD 520	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000GUS	i3-6100U	No	HD 520	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000RUS	i5-6200U	No	HD 520	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0010US	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ0012US	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003AUS	i5-6300U	vPro	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ003XUS	i5-6200U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	3-depot	No	03/16
20GJ000LUS	Cel 3855U	No	HD 510	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win7 P64	3-depot	No	03/16
20GJ005JUS	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	04/16
20GJ005KUS	i5-6200U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	04/16
20GJ005LUS	i5-6300U	vPro	HD 520	8GBx2	13.3" FHD IPS	No	512G SSD	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad 13 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	

Graphics — Intel HD Graphics 510 or 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets

Display — *Some:* 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio
Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS

Multi-touch — None

Storage — M.2 SSD / SATA 6.0Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *3165 ac+BT4.0:* Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

Dimensions[3] — *WxDxH (silver):* 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm
WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm

Weight[2] — from 3.17 lb / 1.44 kg

Case color — Pure Black or Silver

Case material — *Black cover:* PC/ABS plastic; *Silver cover:* Aluminum

Smart card reader — None

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Battery — Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10] — *MobileMark® 2014:* 11.6 hr

AC adapter — 45-watt AC adapter

Preload — *Win7 P64:* Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 Home 64: Windows 10 Home 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite

See footnotes for more detailed information

ThinkPad 13 20GJ (TopSeller) - Windows 10

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GJ0007US	Cel 3855U	No	HD 510	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ0008US	i5-6200U	No	HD 520	8GBx2	13.3" FHD IPS	No	512G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000CUS	Cel 3855U	No	HD 510	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000EUS	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000HUS	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000JUS	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	512G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000NUS	i5-6200U	No	HD 520	4GBx2	13.3" FHD IPS	No	512G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000QUS	Cel 3855U	No	HD 510	4GBx2	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000SUS	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000WUS	i3-6100U	No	HD 520	4GBx2	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ0013US	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ0014US	i5-6200U	No	HD 520	4GBx2	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ0016US	i3-6100U	No	HD 520	4GBx2	13.3" FHD IPS	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ0006US	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ0009US	Cel 3855U	No	HD 510	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000BUS	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000DUS	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000KUS	i3-6100U	No	HD 520	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000PUS	i5-6200U	No	HD 520	4GBx2	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000TUS	i5-6200U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000VUS	i5-6200U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ000YUS	i5-6200U	No	HD 520	4GBx2	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16
20GJ0015US	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad 13 Platform Specifications sheet*

Processor — Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133
i3-6100U		2.3 GHz	-	3MB	
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	

Graphics — Intel HD Graphics 510 or 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets

Display — *Some:* 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio
Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS

Multi-touch — None

Storage — M.2 SSD / SATA 6.0Gb/s

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4] — *3165 ac+BT4.0:* Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

Dimensions[3] — *WxDxH (silver):* 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm
WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm

Weight[2] — from 3.17 lb / 1.44 kg

Case color — Pure Black or Silver

Case material — *Black cover:* PC/ABS plastic; *Silver cover:* Aluminum

Smart card reader — None

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Battery — Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10] — *MobileMark® 2014:* 11.6 hr

AC adapter — 45-watt AC adapter

Preload — *Win7 P64:* Genuine Windows® 7 Professional 64
Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 Home 64: Windows 10 Home 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite

See footnotes for more detailed information



Lenovo® ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240

ThinkPad X240 Platform Specifications

Positioning
Ultraportable Ultrabook™ or Thinbook; one spindle

Processor
4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4010U	2	4	1.7 GHz	-	3MB	DDR3L-1600	Intel HD graphics 4400
i5-4200U			1.6 GHz	2.6 GHz	3MB		
i5-4210U			1.7 GHz	2.7 GHz	3MB		
i5-4300U			1.9 GHz	2.9 GHz	3MB		
i7-4600U			2.1 GHz	3.3 GHz	4MB		

Memory
8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **12.5"** (317.5mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio, TN
Some: **12.5"** (317.5mm) **HD (1366x768)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, **IPS**
Some: **12.5"** (317.5mm) **FHD (1920x1080)**, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, **IPS**

Multi-touch
Some: Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)*
HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics
Intel HD Graphics 4400 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad,
integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm
12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*No + 6-cell*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg
MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg

Case material
Glass-Fiber Reinforced Plastic

Internal battery
Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh)*, HW Authentication

External battery
Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.7 hr	13.1 hr	17.4 hr

AC adapter
45-watt AC adapter

Chipset
Intel SoC (System on Chip) platform

Smart card reader
Optional: Smart card reader, exclusive with M.2 SSD

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Audio support
HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC
Optional: Near Field Communication

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Nitro Pro
- Evernote®
- Skype™
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Lenovo Reach (Windows 8.1 model)
- Hightail - Metro (Windows 8.1 model)
- Lenovo Cloud Storage by SugarSync - Metro (Windows 8 model)
- Lenovo Cloud Storage by SugarSync (Windows 8 model)
- PC Device Stage
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad X240 20AL (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AL00FRUS	i3-4010U	No	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	None	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	09/14
20AL00FSUS	i3-4010U	No	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	None	None	Finger	None	No+6(47.5wh)	45W	Win8 DG Win7	1-depot	No	09/14
20AL00FTUS	i3-4010U	No	HD 4400	4GBx1	12.5" HD	No	180G SSD Opal	7260 b/g/n+BT	Upg	None	None	None	None	Finger	None	3+3	45W	Win8 DG Win7	1-depot	No	09/14
20AL008WUS	i5-4200U	No	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13
20AL008XUS	i5-4200U	No	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 b/g/n+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL008YUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0090US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13
20AL0091US	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0096US	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0097US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0098US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13
20AL0099US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13
20AL009AUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009BUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009EUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009FUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009HUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13
20AL00FJUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	07/14
20AL0092US	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0093US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL0094US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 DG Win7	3-depot	No	11/13

- *For detailed platform specifications, please see ThinkPad X240 Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory

8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD

Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display

Some: **12.5"** (317.5mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **12.5"** (317.5mm) **HD (1366x768)**, 300 nits, 700:1 contrast ratio, **IPS**
Some: **12.5"** (317.5mm) **FHD (1920x1080)**, 400 nits, 700:1 contrast ratio, **IPS**

Multi-touch

Some: Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)*

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics 4400 in processor

Dimensions[3]

12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm
12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*3-cell only*	*6-cell only*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg
MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg

Case material

Glass-Fiber Reinforced Plastic

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh)*, HW Authentication

External battery

Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.7 hr	13.1 hr	17.4 hr

AC adapter

45-watt AC adapter

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Intel SoC (System on Chip) platform

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

WLAN[4]

11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

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ThinkPad X240 20AL (TopSeller) - II

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AL0095US	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009CUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009DUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL009GUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	11/13
20AL00FKUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	07/14
20AL00FLUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	No	07/14

- *For detailed platform specifications, please see ThinkPad X240 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
- *Some:* SSHD with 8GB NAND flash memory

M.2 SSD
- *Some:* Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
- *Some:* Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
- *Some:* **12.5"** (317.5mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
- *Some:* **12.5"** (317.5mm) **HD (1366x768)**, 300 nits, 700:1 contrast ratio, **IPS**
- *Some:* **12.5"** (317.5mm) **FHD (1920x1080)**, 400 nits, 700:1 contrast ratio, **IPS**

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3]
- *12.5W" (WxDxH):* 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm
- *12.5W" MultiTouch (WxDxH):* 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*3-cell only*	*6-cell only*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg
MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg

Case material — Glass-Fiber Reinforced Plastic

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh)*, HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.7 hr	13.1 hr	17.4 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

WLAN[4]
- *11b/g/n+BT:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
- *7260 b/g/n+BT:* Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 a/b/g/n+BT:* Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
- *7260 ac+BT:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *EM7355:* Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
- *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
- *Select:* User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
- *Non-vPro model:* Intel Ethernet Connection I218-V (Clarkville)
- *vPro model:* Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
- *Win8 / 8.1 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
- *Win8 / 8.1 64:* Windows 8 / 8.1 64-bit
- *Win8 / 8.1 P64:* Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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ThinkPad X240 20AL (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AL00D9US	i5-4200U	No	HD 4400	4GBx1	12.5" FHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20AL008GUS	i5-4200U	No	HD 4400	4GBx1	12.5" HD IPS	MT	500G 7200	7260 b/g/n+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008HUS	i5-4200U	No	HD 4400	4GBx1	12.5" HD IPS	MT	128G SSD	7260 b/g/n+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL00D3US	i5-4300U	vPro	HD 4400	4GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20AL00D4US	i5-4300U	vPro	HD 4400	4GBx1	12.5" FHD IPS	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20AL008JUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008KUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008NUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008PUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL009JUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL00D5US	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20AL00D7US	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	No	03/14
20AL008LUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008MUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008QUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL008RUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AL009KUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13

- *For detailed platform specifications, please see ThinkPad X240 Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600
i5-4200U		1.6 GHz	2.6 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket

Optical — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD
Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader
Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **12.5"** (317.5mm) **HD (1366x768)**, 200 nits, 300:1 contrast ratio
Some: **12.5"** (317.5mm) **HD (1366x768)**, 300 nits, 700:1 contrast ratio, **IPS**
Some: **12.5"** (317.5mm) **FHD (1920x1080)**, 400 nits, 700:1 contrast ratio, **IPS**

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture

Camera *(optional)* — HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics — **Intel HD Graphics 4400** in processor

Dimensions[3]
12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm
12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*3-cell only*	*6-cell only*	*3-cell + 3-cell*	*3-cell + 6-cell*
Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg
MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg

Case material — Glass-Fiber Reinforced Plastic

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23.5Wh)*, HW Authentication

External battery — Li-Ion 3-cell *(23.5Wh) or 6-cell (47.5Wh or 72Wh),* HW Authentication

Max battery life[10]

Battery configuration	*3-cell + 3-cell*	*3-cell + 6-cell 47.5Wh*	*3-cell + 6-cell 72Wh*
Battery life	8.7 hr	13.1 hr	17.4 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*
AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

NFC — *Optional:* Near Field Communication

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Preload
Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

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Lenovo® ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250

ThinkPad X250 Platform Specifications

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-4300U	2	4	1.9 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD graphics 4400
i3-5010U			2.1 GHz	-	3MB		Intel HD Graphics 5500
i5-5200U			2.2 GHz	2.7 GHz	3MB		
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics

Intel HD Graphics 5500 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display

Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

M.2 Solid State Drive (SSD), via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material

Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader *Optional:* Smart card reader

Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* HD720p resolution, low light sensitive, fixed focus

Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Trusted Platform Module, TCG 1.2-compliant

ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)* Intel vPro Technology

Fingerprint reader *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter 45W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12] *One of the following, configurable by model:*

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test MIL-STD-810G military certification

Environment EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad X250 20CM (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM002XUS	i5-5200U	No	HD 5500	8GBx1	12.5" HD	No	500G 5400	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0036US	i5-5200U	No	HD 5500	4GBx1	12.5" HD	No	500G 5400	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM002VUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM002YUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	500G 5400	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0030US	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0031US	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 5400	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0032US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0033US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0034US	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0035US	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM002WUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0046US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CM0047US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CM0049US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 5400	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CM0048US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CMA00FUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	03/15
20CM004FUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" FHD IPS	MT	500G 7200 Opal	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	05/15
20CM004GUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200 Opal	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	05/15
20CM004HUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	05/15

- *For detailed platform specifications, please see ThinkPad X250 Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600
i3-5010U		2.1 GHz	-	3MB	
i5-5200U		2.2 GHz	2.7 GHz	3MB	
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter — 45W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WV2-1) © Lenovo

ThinkPad X250 20CM (TopSeller) - II

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM005XUS	i7-5600U	vPro	HD 5500	4GBx1	12.5" FHD IPS	MT	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005YUS	i7-5600U	vPro	HD 5500	16GBx1	12.5" FHD IPS	MT	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM0060US	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005SUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005TUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005UUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005VUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005WUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005GUS	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200 Opal	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005HUS	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005JUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005KUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005LUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005MUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005NUS	i7-5600U	vPro	HD 5500	16GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005PUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005QUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	512G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM005RUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15
20CM008FUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20CM008GUS	i5-5200U	No	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200 Opal	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15

• *For detailed platform specifications, please see ThinkPad X250 Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600
i3-5010U		2.1 GHz	-	3MB	
i5-5200U		2.2 GHz	2.7 GHz	3MB	
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter — 45W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WV2-5) © Lenovo

ThinkPad X250 20CM (TopSeller) - III

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM008DUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20CM008EUS	i5-5200U	No	HD 5500	8GBx1	12.5" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15
20CM008HUS	i5-5200U	No	HD 5500	8GBx1	12.5" HD	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad X250 Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600
i3-5010U		2.1 GHz	-	3MB	
i5-5200U		2.2 GHz	2.7 GHz	3MB	
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter — 45W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WV2-6) © Lenovo

ThinkPad X250 20CM (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM0087US	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0088US	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0089US	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM008AUS	i7-5600U	vPro	HD 5500	16GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0083US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0084US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0085US	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM0086US	i7-5600U	vPro	HD 5500	16GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15
20CM008BUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad X250 Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600
i3-5010U		2.1 GHz	-	3MB	
i5-5200U		2.2 GHz	2.7 GHz	3MB	
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)* — M.2 Solid State Drive (SSD), via M.2 card slot

Optical — None

Ethernet — Intel Ethernet Connection I218-V (*Non-vPro model*) or I218-LM (*vPro model*)

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]
12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material
Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter — 45W AC adapter

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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Lenovo® ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260

ThinkPad X260 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics

Intel HD Graphics 520 in processor,
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable);
4096x2160@24Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display

Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN[4]

One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
- 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
- WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model (mutually exclusive with WiGig):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg

Case material

Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)*

WiGig dock, mutually exclusive with WWAN

Monitor cable

Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Swipe style fingerprint reader on the keyboard bezel

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] **(*MobileMark® 2014*)**

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Max battery life	6 hr	12 hr	18.5 hr	25 hr

AC adapter

45W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad X260 20F6 (TopSeller)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F6005FUS	i3-6100U	No	HD 520	4GBx1	12.5" HD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005EUS	i5-6200U	No	HD 520	4GBx1	12.5" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005GUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005HUS	i5-6200U	No	HD 520	8GBx1	12.5" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005JUS	i7-6600U	vPro	HD 520	8GBx1	12.5" HD	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005KUS	i7-6600U	vPro	HD 520	8GBx1	12.5" HD	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005LUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005MUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005NUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005QUS	i3-6100U	No	HD 520	4GBx1	12.5" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005RUS	i7-6600U	vPro	HD 520	8GBx1	12.5" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005SUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6006GUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006LUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006NUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006SUS	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(48wh)	45W	Win10 DG Win7	3-depot	No	03/16
20F6006TUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006FUS	i5-6200U	No	HD 520	8GBx1	12.5" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006HUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006JUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD	No	192G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006KUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006PUS	i7-6600U	vPro	HD 520	16GBx1	12.5" HD	No	180G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad X260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]
BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Monitor cable — *Optional:* HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Max battery life	6 hr	12 hr	18.5 hr	25 hr

AC adapter — 45W AC adapter

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad X260 20F6 (TopSeller) - II

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F6006QUS	i5-6200U	No	HD 520	8GBx1	12.5" HD	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6006RUS	i5-6300U	vPro	HD 520	4GBx1	12.5" HD	No	500G 7200	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	03/16
20F6008KUS	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008MUS	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008GUS	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008HUS	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008JUS	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008NUS	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008PUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008QUS	i3-6100U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008RUS	i3-6100U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008SUS	i3-6100U	No	HD 520	8GBx1	12.5" HD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008TUS	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008UUS	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008VUS	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	500G 7200	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16
20F6008WUS	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad X260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]
BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Monitor cable — *Optional:* HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Max battery life	6 hr	12 hr	18.5 hr	25 hr

AC adapter — 45W AC adapter

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WV3-2) © Lenovo

ThinkPad X260 20F6 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F60068US	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F60069US	i5-6300U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F6006AUS	i5-6300U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F6006BUS	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F6006EUS	i5-6300U	No	HD 520	8GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F6006CUS	i5-6300U	No	HD 520	8GBx1	12.5" HD	No	500G 5400 SSHD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16
20F6006DUS	i5-6200U	No	HD 520	8GBx1	12.5" HD	No	500G 5400 SSHD	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad X260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133
i5-6200U		2.3 GHz	2.8 GHz	3MB	
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS
Some: SSHD with 8GB NAND flash memory

Optical — None

Ethernet — Intel Ethernet Connection I219-V (*Non-vPro model*) or I219-LM (*vPro model*)

WLAN[4]
BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3] — *WxDxH:* 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Monitor cable — *Optional:* HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable

Camera *(optional)* — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Swipe style fingerprint reader on the keyboard bezel

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] *(MobileMark® 2014)*

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Max battery life	6 hr	12 hr	18.5 hr	25 hr

AC adapter — 45W AC adapter

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(WV3-3) © Lenovo



Lenovo® ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)

ThinkPad X1 Carbon (2nd Gen) Platform Specifications

Processor

4th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-4200U	2	4	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Intel HD Graphics 4400
i5-4210U			1.7 GHz	2.7 GHz	3MB		
i5-4300U			1.9 GHz	2.9 GHz	3MB		
i7-4600U			2.1 GHz	3.3 GHz	4MB		

Memory

4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets

Optical

None

Storage

M.2 Solid State Drive (SSD)

Widescreen display

Some: **14.0"** (355mm) **HD+ (1600x900)**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

Some: **14.0"** (355mm) **WQHD (2560x1440)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, **IPS**, 170° viewing angle

Multi-touch

Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Camera

HD720p resolution, low light sensitive, face tracking, fixed focus, **gesture input**

Light sensor

Ambient Light Sensor (Windows 8.1 64-bit only)

Graphics

Intel HD Graphics 4400 or **5000** in processor,
external digital monitor support via Mini DisplayPort or HDMI™
(supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable);
supports three independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@30Hz; 2880x1620 (HDMI)@60Hz

Keyboard

Adaptive Keyboard with a dynamically changing row
providing additional functionality based on the type of the application active /
5-row**,** spill-resistant (except Adaptive Keys), **LED backlit**

UltraNav™

TrackPoint® pointing device and glass surface touchpad,
integrated five buttons, multi-touch

ThinkLight™

None

Dimensions[3]

WQHD (WxDxH):	13.03" x 8.92" x 0.70";	331.0mm x 226.5mm x 17.72mm
HD+ (WxDxH):	13.03" x 8.93" x 0.71";	331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH):	13.03" x 8.94" x 0.73";	331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*WQHD*	*HD+*	*WQHD Touch*
Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg

Case material

Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Battery type

Integrated Lithium Polymer 8-cell *(45Wh)* RapidCharge battery

Max battery life[10]

Integrated battery: up to 9 hr

AC Adapter

45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter

RapidCharge

AC Adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.0hr	50min	50min
Charge to 100%	2.3hr	2.1hr	2.1hr

Chipset

Intel SoC (System on Chip) platform

Smart card reader

None

Media reader

None

Ports

Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector,
Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)

Monitor Cable

Some: Mini DisplayPort to VGA Monitor Cable

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 /
stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

WLAN[4]

One of the following, configurable by model:

- Intel Wireless-N 7260, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*

One of the following, configurable by model:

- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Ethernet Extension cable

NFC

Optional: Near Field Communication

Security

Power-on password, hard disk password, supervisor password, security keyhole, reset switch

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Fingerprint reader on the keyboard bezel, swipe sensor

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Nitro Pro
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit

Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Hightail - Metro
- PC Device Stage
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant

ThinkPad X1 Carbon (2nd Gen) 20A7 (TS)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit keyboard	Fingerprint reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A7002FUS	i5-4200U	No	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002HUS	i5-4200U	No	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7007GUS	i5-4210U	No	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	05/14
20A7002JUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002NUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002YUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70031US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002LUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70033US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70094US	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	07/14
20A7002QUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002SUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002UUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002WUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70096US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	07/14

- *For detailed platform specifications, please see ThinkPad X1 Carbon (2nd Gen) Platform Specifications sheet*

Processor

4th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600
i5-4210U		1.7 GHz	2.7 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory

4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets

Optical

None

Storage

M.2 Solid State Drive (SSD)

Widescreen display

Some: **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio
Some: **14.0"** (355mm) **WQHD (2560x1440)**, 300 nits, 700:1 contrast ratio, **IPS**

Multi-touch

Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Camera

HD720p resolution, low light sensitive, face tracking, fixed focus, **gesture input**

Light sensor

Ambient Light Sensor (Windows 8.1 64-bit only)

Graphics

Intel HD Graphics 4400 or **5000**

Dimensions[3]

WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
HD+ (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*WQHD*	*HD+*	*WQHD Touch*
Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg

Case material

Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Battery type

Integrated Lithium Polymer 8-cell *(45Wh)* RapidCharge battery

Max battery life[10]

Integrated battery: up to 9 hr

AC Adapter

45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter

RapidCharge

AC Adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.0hr	50min	50min
Charge to 100%	2.3hr	2.1hr	2.1hr

Audio support

HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard

Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row**,** spill-resistant (except Adaptive Keys), **LED backlit**

UltraNav™

TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch

ThinkLight™

None

Chipset

Intel SoC (System on Chip) platform

Smart card reader

None

Media reader

None

Ports

Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)

Monitor Cable

Some: Mini DisplayPort to VGA Monitor Cable

WLAN[4]

7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*

Upg: Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)*

AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Ethernet Extension cable

NFC

Optional: Near Field Communication

Security

Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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ThinkPad X1 Carbon (2nd Gen) 20A7 (TS) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Moni-tor cable	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A7006DUS	i5-4200U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	None	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	1-depot	No	02/14
20A7006TUS	i5-4200U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	1-depot	No	03/14
20A7007DUS	i5-4210U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	1-depot	No	05/14
20A7006RUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	1-depot	No	03/14
20A7003BUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003DUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003EUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003GUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70035US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003JUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70037US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70039US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003LUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003PUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7006VUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	03/14
20A7006WUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	07/14

- *For detailed platform specifications, please see ThinkPad X1 Carbon (2nd Gen) Platform Specifications sheet*

Processor — 4th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600
i5-4210U		1.7 GHz	2.7 GHz	3MB	
i5-4300U		1.9 GHz	2.9 GHz	3MB	
i7-4600U		2.1 GHz	3.3 GHz	4MB	

Memory — 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets

Optical — None

Storage — M.2 Solid State Drive (SSD)

Widescreen display — *Some:* **14.0"** (355mm) **HD+ (1600x900)**, 250 nits, 400:1 contrast ratio
Some: **14.0"** (355mm) **WQHD (2560x1440)**, 300 nits, 700:1 contrast ratio, **IPS**

Multi-touch — *Some:* Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Camera — HD720p resolution, low light sensitive, face tracking, fixed focus, **gesture input**

Light sensor — Ambient Light Sensor (Windows 8.1 64-bit only)

Graphics — **Intel HD Graphics 4400** or **5000**

Dimensions[3]

WQHD (WxDxH):	13.03" x 8.92" x 0.70";	331.0mm x 226.5mm x 17.72mm
HD+ (WxDxH):	13.03" x 8.93" x 0.71";	331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH):	13.03" x 8.94" x 0.73";	331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*WQHD*	*HD+*	*WQHD Touch*
Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Battery type — Integrated Lithium Polymer 8-cell *(45Wh)* RapidCharge battery

Max battery life[10] — *Integrated battery:* up to 9 hr

AC Adapter — 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter

RapidCharge

AC Adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.0hr	50min	50min
Charge to 100%	2.3hr	2.1hr	2.1hr

Audio support — HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard — **Adaptive Keyboard** with a dynamically changing row providing additional functionality based on the type of the application active / 5-row**,** spill-resistant (except Adaptive Keys), **LED backlit**

UltraNav™ — TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart card reader — None

Media reader — None

Ports — Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)

Monitor Cable — *Some:* Mini DisplayPort to VGA Monitor Cable

WLAN[4]

7260 b/g/n+BT:	Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 a/b/g/n+BT:	Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card
7260 ac+BT:	Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS

SIM card *(optional)* — *AT&T / Verizon:* AT&T® / Verizon® LTE (4G), contract required with service provider
Select: User selectable, contract required with service provider

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Ethernet Extension cable

NFC — *Optional:* Near Field Communication

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Fingerprint reader on the keyboard bezel, swipe sensor

Preload

Win8.1 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Win8.1 64:	Windows 8.1 64-bit
Win8.1 P64:	Windows 8.1 Pro 64-bit

Limited warranty[12] **1-year** - depot / **3-years** (1-yr battery) - depot / **3-years** (1-year battery) **onsite**

See footnotes for more detailed information

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ThinkPad X1 Carbon (3rd Gen)



Lenovo® ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)

ThinkPad X1 Carbon (3rd Gen) Platform Specifications

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5500U			2.4 GHz	3 GHz	4MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics

Intel HD Graphics 5500 in processor,
external digital monitor support via Mini DisplayPort or HDMI™
(supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable);
supports three independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2304 (HDMI)@24Hz

Chipset

Intel SoC (System on Chip) platform

Memory

4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L /
soldered to systemboard, no sockets

Display

Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Storage

M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA

Optical

None

Ethernet

Gigabit Ethernet via Ethernet extension cable

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*FHD*	*WQHD*	*WQHD Touch*
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg

Case material

Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Media reader

None

Ports

Two USB 3.0 (one Always On), Mini DisplayPort, HDMI,
Ethernet extension connector, Lenovo OneLink connector

Monitor cable

Optional: Mini DisplayPort to VGA Monitor Cable

Camera

HD720p resolution, low light sensitive, fixed focus, gesture input

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 /
dual array microphone, combo audio/microphone jack

Keyboard

6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole, reset switch

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Fingerprint reader on the keyboard bezel, swipe sensor

Battery type

Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

Max battery life[10]

Models	*FHD*	*WQHD*	*WQHD Touch*
Battery life	10.9 hr	9.9 hr	9.9 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.1hr	55min	55min
Charge to 100%	2.5hr	2.3hr	2.3hr

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

ThinkPad X1 Carbon (3rd Gen) 20BS (TS)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS002WUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20BS0034US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20BS002VUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0037US	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003AUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0033US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003CUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002YUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0032US	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0039US	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002TUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002UUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0031US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003BUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003DUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS006SUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	128G SSD	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15
20BS006TUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15
20BS006UUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15

- *For detailed platform specifications, please see ThinkPad X1 Carbon (3rd Gen) Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Storage — M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA

Optical — None

Ethernet — Gigabit Ethernet via Ethernet extension cable

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Media reader — None

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector

Monitor cable — *Optional:* Mini DisplayPort to VGA Monitor Cable

Dimensions[3]
WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*FHD*	*WQHD*	*WQHD Touch*
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Camera — HD720p resolution, low light sensitive, fixed focus, gesture input

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Fingerprint reader on the keyboard bezel, swipe sensor

Battery type — Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

Max battery life[10]

Models	*FHD*	*WQHD*	*WQHD Touch*
Battery life	10.9 hr	9.9 hr	9.9 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.1hr	55min	55min
Charge to 100%	2.5hr	2.3hr	2.3hr

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

US model(s) withdrawn effective April 2015

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ThinkPad X1 Carbon (3rd Gen) 20BS (TS) - II

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS009TUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009VUS	i5-5200U	No	HD 5500	8GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009WUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009UUS	i5-5200U	No	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS00BGUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00BHUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00BKUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00B9US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15
20BS00B7US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15
20BS00B8US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad X1 Carbon (3rd Gen) Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Storage — M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA

Optical — None

Ethernet — Gigabit Ethernet via Ethernet extension cable

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
- *7265 b/g/n+BT:* Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
- *7265 a/b/g/n+BT:* Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
- *7265 ac+BT:* Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *N5321:* Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- *EM7345:* Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Media reader — None

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector

Monitor cable — *Optional:* Mini DisplayPort to VGA Monitor Cable

Dimensions[3]
- *WQHD (WxDxH):* 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
- *FHD (WxDxH):* 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
- *WQHD Touch (WxDxH):* 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*FHD*	*WQHD*	*WQHD Touch*
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Camera — HD720p resolution, low light sensitive, fixed focus, gesture input

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Fingerprint reader on the keyboard bezel, swipe sensor

Battery type — Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

Max battery life[10]

Models	*FHD*	*WQHD*	*WQHD Touch*
Battery life	10.9 hr	9.9 hr	9.9 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.1hr	55min	55min
Charge to 100%	2.5hr	2.3hr	2.3hr

Preload
- *Win8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- *Win8.1 64:* Windows 8.1 64-bit
- *Win8.1 P64:* Windows 8.1 Pro 64-bit
- *Win10 P64:* Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad X1 Carbon (3rd Gen) 20BS (TS) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Moni-tor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS002XUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	1-depot	No	01/15
20BS0030US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0036US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003FUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0035US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0038US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003EUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003GUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad X1 Carbon (3rd Gen) Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Storage — M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA

Optical — None

Ethernet — Gigabit Ethernet via Ethernet extension cable

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
Upg: Wireless WAN upgradable
N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Media reader — None

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector

Monitor cable — *Optional:* Mini DisplayPort to VGA Monitor Cable

Dimensions[3]
WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*FHD*	*WQHD*	*WQHD Touch*
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Camera — HD720p resolution, low light sensitive, fixed focus, gesture input

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Fingerprint reader on the keyboard bezel, swipe sensor

Battery type — Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

Max battery life[10]

Models	*FHD*	*WQHD*	*WQHD Touch*
Battery life	10.9 hr	9.9 hr	9.9 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.1hr	55min	55min
Charge to 100%	2.5hr	2.3hr	2.3hr

Preload
Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
Win8.1 64: Windows 8.1 64-bit
Win8.1 P64: Windows 8.1 Pro 64-bit
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad X1 Carbon (3rd Gen) 20BS (TS) - Win10

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS009XUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS009YUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS00A0US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS00BJUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00BLUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00BMUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00B5US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00BAUS	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00B4US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00B6US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15

- *For detailed platform specifications, please see ThinkPad X1 Carbon (3rd Gen) Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600
i5-5300U		2.3 GHz	2.9 GHz	3MB	
i7-5500U		2.4 GHz	3 GHz	4MB	
i7-5600U		2.6 GHz	3.2 GHz	4MB	

Graphics — Intel HD Graphics 5500

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

Storage — M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA

Optical — None

Ethernet — Gigabit Ethernet via Ethernet extension cable

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]
- *7265 b/g/n+BT:* Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
- *7265 a/b/g/n+BT:* Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card
- *7265 ac+BT:* Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card

WWAN *(optional)*
- *Upg:* Wireless WAN upgradable
- *N5321:* Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- *EM7345:* Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)* — AT&T® or Verizon® LTE (4G), contract required with service provider

Media reader — None

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector

Monitor cable — *Optional:* Mini DisplayPort to VGA Monitor Cable

Dimensions[3]
- *WQHD (WxDxH):* 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
- *FHD (WxDxH):* 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
- *WQHD Touch (WxDxH):* 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

Weight[2]

Models	*FHD*	*WQHD*	*WQHD Touch*
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; *Bottom:* Magnesium/Aluminum

Camera — HD720p resolution, low light sensitive, fixed focus, gesture input

Audio support — HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Fingerprint reader on the keyboard bezel, swipe sensor

Battery type — Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

Max battery life[10]

Models	*FHD*	*WQHD*	*WQHD Touch*
Battery life	10.9 hr	9.9 hr	9.9 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	1.1hr	55min	55min
Charge to 100%	2.5hr	2.3hr	2.3hr

Preload
- *Win8.1 / 10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64
- *Win8.1 64:* Windows 8.1 64-bit
- *Win8.1 P64:* Windows 8.1 Pro 64-bit
- *Win10 P64:* Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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Lenovo® ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD graphics 520
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics

Intel HD Graphics 520 in processor,
external digital monitor support via Mini DisplayPort or HDMI™;
supports three independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2304 (HDMI)@24Hz

Chipset

Intel SoC (System on Chip) platform

Memory

4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display

Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch

None

Hinge

Normal hinge, 180 degree

Storage

Some: M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical

None

Ethernet

Gigabit Ethernet via optional Ethernet (RJ-45) adapter
(by native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))

WLAN[4]

One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
- WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model (mutually exclusive with WiGig):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)*

Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Dimensions[3]

WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2]

from 2.579 lb / 1.17 kg

Case material

Display cover: Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader

MicroSD card reader, supports UHS-II microSD card

Ports

Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)*

WiGig dock, mutually exclusive with WWAN

Adapter *(optional)*

HDMI-VGA: Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™

TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole, reset switch

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style fingerprint reader on the palm rest

Battery

Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10]

MobileMark® 2014: 11 hr

AC adapter

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

ThinkPad X1 Carbon (4th Gen) 20FB (TS)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Cam-era	Backlit key-board	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FB002JUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002KUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002MUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002PUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002RUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB0045US	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB0048US	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004AUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004BUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004EUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004JUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004LUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004MUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB004TUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB0050US	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005AUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005CUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005KUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005PUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005SUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB005WUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB0065US	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002LUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002NUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad X1 Carbon (4th Gen) Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter

WLAN[4] — *8260 ac+BT:* Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Dimensions[3] — *WxDxH:* 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2] — from 2.579 lb / 1.17 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Battery — Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10] — *MobileMark® 2014:* 11 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad X1 Carbon (4th Gen) 20FB (TS) - II

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FB002QUS	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16
20FB002SUS	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad X1 Carbon (4th Gen) Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage
Some: M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter

WLAN[4]
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Dimensions[3] — *WxDxH:* 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2] — from 2.579 lb / 1.17 kg

Case material
Display cover: Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Adapter *(optional)*
HDMI-VGA: Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Battery — Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10] — *MobileMark® 2014:* 11 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

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ThinkPad X1 Carbon (4th Gen) 20FB (TS) - Win10

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FB0046US	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0047US	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004DUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004PUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004QUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004RUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004UUS	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004WUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004XUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	240G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004YUS	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0051US	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0056US	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0057US	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0059US	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005DUS	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005EUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	240G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005FUS	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005MUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005TUS	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005UUS	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005XUS	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005YUS	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0060US	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0062US	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad X1 Carbon (4th Gen) Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter

WLAN[4] — *8260 ac+BT:* Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Dimensions[3] — *WxDxH:* 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2] — from 2.579 lb / 1.17 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Battery — Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10] — *MobileMark® 2014:* 11 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

(RV1-3) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TS) - Win10 - II

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FB0044US	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	180G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004FUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	128G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004GUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004HUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	240G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004KUS	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004SUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	180G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0053US	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0054US	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0055US	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005BUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	192G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005GUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005NUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005QUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005RUS	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005VUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0061US	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	192G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0063US	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0064US	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0049US	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004CUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004NUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB004VUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0052US	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB0058US	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	240G SSD Opal2	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16

• *For detailed platform specifications, please see ThinkPad X1 Carbon (4th Gen) Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter

WLAN[4] — *8260 ac+BT:* Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *Upg:* Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Dimensions[3] — *WxDxH:* 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2] — from 2.579 lb / 1.17 kg

Case material — *Display cover:* Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Battery — Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10] — *MobileMark® 2014:* 11 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload — *Win10 DG Win7:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

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ThinkPad X1 Carbon (4th Gen) 20FB (TS) - Win10 - III

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FB005HUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005JUS	i5-6300U	vPro	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16
20FB005LUS	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad X1 Carbon (4th Gen) Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types
i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866
i5-6300U		2.4 GHz	3.0 GHz	3MB	
i7-6500U		2.5 GHz	3.1 GHz	4MB	
i7-6600U		2.6 GHz	3.4 GHz	4MB	

Graphics — Intel HD Graphics 520 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display
Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS
Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS

Multi-touch — None

Hinge — Normal hinge, 180 degree

Storage
Some: M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter

WLAN[4]
8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card
18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Upg: Wireless WAN upgradable
EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card *(opt)* — Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Dimensions[3] — *WxDxH:* 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm

Weight[2] — from 2.579 lb / 1.17 kg

Case material
Display cover: Carbon-Fiber Reinforced Plastic;
Bottom: Super magnesium

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector

WiGig dock *(opt)* — WiGig dock, mutually exclusive with WWAN

Adapter *(optional)*
HDMI-VGA: Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack

Security — Power-on / hard disk / supervisor password, security keyhole, reset switch

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the palm rest

Battery — Integrated Lithium Polymer 4-cell *(52Wh)* RapidCharge battery

Max battery life[10] — *MobileMark® 2014:* 11 hr

AC adapter — 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

RapidCharge

AC adapter	*45W*	*65W Slim*	*65W*
Charge to 80%	Not support	1.0 hr	1.0 hr
Charge to 100%	Not support	2.5 hr	2.5 hr

Preload
Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Win10 P64: Windows 10 Pro 64

Limited warranty[12] — 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(RV1-5) © Lenovo



Lenovo® ThinkPad E450



Lenovo ThinkPad E450



Lenovo ThinkPad E450

ThinkPad E450 Platform Specifications

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics

Intel HD Graphics in processor only, or
AMD Radeon R5 M240 Graphics, 1GB DDR3 memory,
AMD Radeon R7 M260 Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch

Some: supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical

None

M.2 SSD

None

Ethernet

Intel WGI218V Gigabit Ethernet Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN

None

SIM card

None

Smart Card Read

None

ExpressCard

None

Dimensions

None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm

Weight

6-cell None Touch: from 4.00 lb (1.81kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45),
external monitor (HDMI), Lenovo OneLink connector

Monitor cable

None

Camera

Some: 0.3-megapixel, fixed focus
Some: HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM : Trusted Platform Module, TCG 1.2-compliant
Soft : Software TPM enabled

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (47Wh)

Battery life

6-cell (47Wh): up to 9.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit

Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Evernote
- Maxthon Cloud Browser
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™

Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E450 20DC - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DC003FUS	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	No	6 (47wh)	45W	Win8.1 64	1-depot	No	01/15
20DC003JUS	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	No	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003KUS	i3-4005U	No	HD 4400	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003LUS	i3-4005U	No	HD 4400	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003SUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003TUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003UUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003VUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003PUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003NUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003MUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 64	1-depot	No	01/15
20DC003QUS	i3-5005U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC003RUS	i3-5005U	No	HD 5500	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DC004CUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004HUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004TUS	i5-5200U	No	HD 5500	8GBx1	14.0" FHD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC003WUS	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0049US	i3-5005U	No	HD 5500	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004NUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004EUS	i5-5200U	No	HD 5500	4GBx1	14.0" FHD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E450 Platform Specifications sheet*

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics
Intel HD Graphics in processor only, or
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm

Weight
6-cell None Touch: from 4.00 lb (1.81kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Some: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
6-cell (47Wh): up to 9.0 hr

AC adapter
45-watt AC adapter (Integrated Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E450 20DC - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DC003XUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004QUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004FUS	i5-5200U	No	HD 5500	4GBx1	14.0" FHD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004PUS	i5-5200U	No	HD 5500	8GBx1	14.0" FHD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0046US	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0048US	i3-5005U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0043US	i3-4005U	No	HD 4400	8GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004DUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004KUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0042US	i3-4005U	No	HD 4400	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0045US	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004SUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004GUS	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0047US	i3-5005U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004MUS	i5-5200U	No	HD 5500	8GBx1	14.0" FHD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0041US	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	1TB 5400	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004LUS	i5-5200U	No	HD 5500	8GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0044US	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC004JUS	i5-5200U	No	HD 5500	4GBx1	14.0" FHD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DC0040US	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	No	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E450 Platform Specifications sheet*

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics
Intel HD Graphics in processor only, or
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm

Weight
6-cell None Touch: from 4.00 lb (1.81kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Some: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
6-cell (47Wh): up to 9.0 hr

AC adapter
45-watt AC adapter (Integrated Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E450 20DC (Radeon) - TopSeller

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DC0099US	i7-5500U	No	R7 M260	4GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC0050US	i7-5500U	No	R7 M260	8GBx1	14.0" FHD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC004YUS	i7-5500U	No	R7 M260	8GBx1	14.0" HD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC004VUS	i7-5500U	No	R7 M260	4GBx1	14.0" FHD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC003YUS	i7-5500U	No	R7 M260	8GBx1	14.0" HD	None	128GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC004WUS	i7-5500U	No	R7 M260	4GBx1	14.0" HD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC004XUS	i7-5500U	No	R7 M260	4GBx1	14.0" FHD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC0051US	i7-5500U	No	R7 M260	8GBx1	14.0" FHD	None	1TB 5400	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DC004UUS	i7-5500U	No	R7 M260	4GBx1	14.0" FHD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E450 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
AMD Radeon R7 M260 Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm

Weight
6-cell None Touch: from 4.00 lb (1.81kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45),
external monitor (HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
6-cell (47Wh): up to 9.0 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E450 20DC - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DC00B0US	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DC00AVUS	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DC00B1US	i5-5200U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DC00B2US	i3-4005U	No	HD 4400	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DC00BYUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	0.3M	Keyboard	TPM	No	6 (47wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DC00BWUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	08/15
20DC00BVUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	0.3M	Keyboard	TPM	No	6 (47wh)	45W	Win10 P64	1-depot	No	08/15
20DC00BXUS	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	500GB 7200	None	3160 ac+BT4.0	None	None	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DC00C0US	i3-5005U	No	HD 5500	4GBx1	14.0" HD	None	192GB SSD	None	3160 ac+BT4.0	None	None	0.3M	Keyboard	TPM	No	6 (47wh)	45W	Win10 DG Win7	1-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad E450 Platform Specifications sheet*

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics
Intel HD Graphics in processor only, or
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm

Weight
6-cell None Touch: from 4.00 lb (1.81kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45),
external monitor (HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
Some: 0.3-megapixel, fixed focus
Some: HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM : Trusted Platform Module, TCG 1.2-compliant
Soft : Software TPM enabled

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
6-cell (47Wh): up to 9.0 hr

AC adapter
45-watt AC adapter (Integrated Graphics)

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E450 20DC (Radeon) - TopSeller (Windows 10)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DC00AWUS	i7-5500U	No	R7 M260	4GBx1	14.0" FHD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	Soft	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	07/15
20DC00AYUS	i7-5500U	No	R7 M260	8GBx1	14.0" FHD	None	192GB SSD	None	7265 ac+BT4.0	None	None	720p	Keyboard	Soft	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	07/15
20DC00AXUS	i7-5500U	No	R7 M260	4GBx1	14.0" FHD	None	500GB 7200	None	7265 ac+BT4.0	None	None	720p	Keyboard	No	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E450 Platform Specifications sheet*

Processor	5th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics	AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content)
Chipset	Intel SoC (System on Chip) platform
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Multi-touch	*Some:* supports 10-finger gesture
Storage	*Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ *Some:* Hybrid drive with 8GB NAND flash memory
Optical	None
M.2 SSD	None
Ethernet	Intel WGI218V Gigabit Ethernet Connection
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WLAN	*One of the following, configurable by model:* • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card
WWAN	None
SIM card	None

Dimensions	*None Touch(WxDxH):* 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm
Weight	*6-cell None Touch:* from 4.00 lb (1.81kg)
Case color	Graphite Black
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector
Monitor cable	None
Camera	HD720p resolution, fixed focus
Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Keyboard	6-row, spill-resistant, multimedia Fn keys
UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
ThinkLight™	None
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	*TPM :* Trusted Platform Module, TCG 1.2-compliant *Soft :* Software TPM enabled
vPro	None
Fingerprint reader	*Some:* Fingerprint reader on the keyboard bezel, swipe sensor
NFC	None
Battery type	Li-Ion 6-cell (47Wh)
Battery life	6-cell (47Wh): up to 9.0 hr
AC adapter	65-watt AC adapter (Discrete Graphics)
Preload	*Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 *Some:* Windows 10 Pro 64
Limited warranty	1-year - depot repair service / service upgrades available
Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad E455



Lenovo ThinkPad E455



Lenovo ThinkPad E455

ThinkPad E455 Platform Specifications

Processor — AMD Accelerated Processor A6, A8, or A10 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)

Graphics — AMD Radeon™ R4 HD Graphics in processor only,
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 APU
digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset — AMD A76M FCH Chipset

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display —
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio

Multi-touch — None

Storage —
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical — None

M.2 SSD — None

Ethernet — Realtek® RTL8111GUS Gigabit Ethernet Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — *One of the following, configurable by model:*
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN — None

SIM card — None

Smart Card Read — None

ExpressCard — None

Dimensions — *None Touch(WxDxH):* 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)

Weight — From 4.00 lb (1.81kg)

Case color — Graphite black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — None

Fingerprint reader — None

NFC — None

Battery type — Li-Ion 6-cell (47Wh)

Battery life — Up to 6.5 hr

AC adapter —
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload —

Some: No operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit

Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Evernote
- Maxthon Cloud Browser
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™

Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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(LNST-AMD1-Spec) August 2015

ThinkPad E455 20DE (Integrated) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DE001PUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DE001DUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DE001CUS	A6-7000	No	R4 HD	8GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DE001KUS	A6-7000	No	R4 HD	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DE001BUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DE0017US	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DE001AUS	A6-7000	No	R4 HD	8GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DE001GUS	A6-7000	No	R4 HD	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 P64	1-depot	No	01/15
20DE001RUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win8.1 64	1-depot	No	03/15

- *For detailed platform specifications, please see ThinkPad E455 Platform Specifications sheet*

Processor — AMD Accelerated Processor A6 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD

Graphics — AMD Radeon™ R4 HD Graphics in processor only

Chipset — AMD A76M FCH Chipset

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display — 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio

Multi-touch — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
- *Some:* Hybrid drive with 8GB NAND flash memory

Optical — None

M.2 SSD — None

Ethernet — Realtek® RTL8111GUS Gigabit Ethernet Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — *One of the following, configurable by model:*
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

Dimensions — *None Touch(WxDxH):* 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)

Weight — From 4.00 lb (1.81kg)

Case color — Graphite black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — None

Fingerprint reader — None

NFC — None

Battery type — Li-Ion 6-cell (47Wh)

Battery life — Up to 6.5 hr

AC adapter — 45-watt AC adapter (Integrated Graphics)

Preload
- *Some:* No operating system
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- *Some:* Windows 8.1 64-bit
- *Some:* Windows 8.1 Pro 64-bit

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E455 20DE (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DE001HUS	A8-7100	No	R5 M240	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE001QUS	A8-7100	No	R5 M240	4GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE001MUS	A8-7100	No	R5 M240	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE001FUS	A10-7300	No	R7 M260DX	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE0019US	A10-7300	No	R7 M260DX	4GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE001EUS	A10-7300	No	R7 M260DX	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DE0016US	A10-7300	No	R7 M260DX	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 P64	1-depot	No	01/15
20DE001JUS	A10-7300	No	R7 M260DX	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 P64	1-depot	No	01/15
20DE0018US	A8-7100	No	R5 M240	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 P64	1-depot	No	01/15
20DE001LUS	A8-7100	No	R5 M240	4GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 P64	1-depot	No	01/15
20DE001NUS	A8-7100	No	R5 M240	8GBx1	14.0" HD	None	1TB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win8.1 P64	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E455 Platform Specifications sheet*

Processor

AMD Accelerated Processor A8, or A10 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB	DDR3L-1600	R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)

Graphics
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 APU

Chipset
AMD A76M FCH Chipset

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Realtek® RTL8111GUS Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

Dimensions
None Touch(WxDxH): 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)

Weight
From 4.00 lb (1.81kg)

Case color
Graphite black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
None

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
Up to 6.5 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E455 20DE (Integrated) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DE001XUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DE001UUS	A6-7000	No	R4 HD	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	45W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E455 Platform Specifications sheet*

Processor — AMD Accelerated Processor A6 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD

Graphics — AMD Radeon™ R4 HD Graphics in processor only

Chipset — AMD A76M FCH Chipset

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display — 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio

Multi-touch — None

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
- *Some:* Hybrid drive with 8GB NAND flash memory

Optical — None

M.2 SSD — None

Ethernet — Realtek® RTL8111GUS Gigabit Ethernet Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — *One of the following, configurable by model:*
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

Dimensions — *None Touch(WxDxH):* 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)

Weight — From 4.00 lb (1.81kg)

Case color — Graphite black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — None

Fingerprint reader — None

NFC — None

Battery type — Li-Ion 6-cell (47Wh)

Battery life — Up to 6.5 hr

AC adapter — 45-watt AC adapter (Integrated Graphics)

Preload — *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 *Some:* Windows 10 Pro 64

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E455 20DE (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DE001WUS	A10-7300	No	R7 M260DX	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DE001VUS	A10-7300	No	R7 M260DX	4GBx1	14.0" HD	None	500GB 5400	None	RTL bgn+BT4.0	None	None	720p	Keyboard	No	No	6 (47wh)	65W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E455 Platform Specifications sheet*

Processor

AMD Accelerated Processor A8, or A10 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB	DDR3L-1600	R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)

Graphics
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 APU

Chipset
AMD A76M FCH Chipset

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
None

M.2 SSD
None

Ethernet
Realtek® RTL8111GUS Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

Dimensions
None Touch(WxDxH): 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)

Weight
From 4.00 lb (1.81kg)

Case color
Graphite black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
None

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
Up to 6.5 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad E460



enovo ThinkPad E460



Lenovo ThinkPad E460

ThinkPad E460 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		

Graphics

Intel HD Graphics in processor only, or
AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
AMD Radeon R7 M360 Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent displays;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS,
250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

M.2 SSD

None

Ethernet

Gigabit Ethernet Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card
- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight

From 4.23 lb (1.92kg)

Case color

Graphite black

Case material

Aluminum: Aluminum display cover
PC/ABS: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio / microphone jack

Monitor cable

None

Camera

Some: HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (47Wh)

Battery life

6-cell (47Wh): up to 9.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty

1-year - depot repair service / service upgrades available

Mil-Spec test

None

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(LNST2-Spec) November 2015

ThinkPad E460 20ET - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20ET0014US	i5-6200U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15
20ET001AUS	i5-6200U	No	HD 520	4GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15
20ET0010US	i5-6200U	No	HD 520	8GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15
20ET0015US	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15
20ET000YUS	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15
20ET0011US	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET0017US	i5-6200U	No	HD 520	4GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET0012US	i5-6200U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET0016US	i5-6200U	No	HD 520	8GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET0018US	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E460 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i3 / i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		

Graphics
Intel HD Graphics in processor only,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Ethernet
Gigabit Ethernet Connection

Bluetooth™
Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight
From 4.23 lb (1.92kg)

Case color
Graphite black

Case material
Aluminum: Aluminum display cover
PC/ABS: PC/ABS plastic display cover

Smart Card Reader
None

ExpressCard
None

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
6-cell (47Wh): up to 9.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty
1-year - depot repair service / service upgrades available

Mil-Spec test
None

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(E4601-1) November 2015

ThinkPad E460 20ET (Radeon) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20ET001BUS	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	192GB SSD	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET001CUS	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	500GB 7200	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET0013US	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	500GB 7200	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	11/15
20ET0019US	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	192GB SSD	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	11/15
20ET004HUS	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD SATA3.0 Opal2	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	04/16
20ET004GUS	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD SATA3.0 Opal2	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad E460 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
i7-6500U			2.5 GHz	3.1 GHz	4MB		

Graphics

AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
AMD Radeon R7 M360 Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS,
250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Ethernet

Gigabit Ethernet Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight

From 4.23 lb (1.92kg)

Case color

Graphite black

Case material

Aluminum: Aluminum display cover
PC/ABS: PC/ABS plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio / microphone jack

Monitor cable

None

Camera

Some: HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (47Wh)

Battery life

6-cell (47Wh): up to 9.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty

1-year - depot repair service / service upgrades available

Mil-Spec test

None

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad E465



Lenovo ThinkPad E465



Lenovo ThinkPad E465

ThinkPad E465 Platform Specifications

Processor

AMD Accelerated Processor A6, A8, or A10 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB		R5 M330
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)

Graphics

AMD Radeon™ R5 Graphics in processor only, or
AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A8 and A10 APU
digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

AMD SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

M.2 SSD

None

Ethernet

Gigabit Ethernet Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight

From 4.27 lb (1.94kg)

Case color

Graphite black

Case material

Aluminum: Aluminum display cover
PC/ABS: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (47Wh)

Battery life

Up to 6.5 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E465 20EX (Integrated) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EX000CUS	A6-8500P	No	R5	4GBx1	14.0" HD	None	500GB 5400	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM1.2	No	6 (47wh)	45W	Win10 DG Win7	1-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E465 Platform Specifications sheet*

Processor

AMD Accelerated Processor A6 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics

Graphics
AMD Radeon™ R5 Graphics in processor only,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
AMD SoC (System on Chip) platform

Memory
16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

Ethernet
Gigabit Ethernet Connection

Bluetooth™
Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight
From 4.27 lb (1.94kg)

Case color
Graphite black

Case material
Aluminum: Aluminum display cover
PC/ABS: PC/ABS plastic display cover

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (47Wh)

Battery life
Up to 6.5 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E465 20EX (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EX000DUS	A10-8700P	No	R6 M340DX	8GBx1	14.0" HD	None	500GB 5400	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20EX000AUS	A10-8700P	No	R6 M340DX	4GBx1	14.0" HD	None	500GB 5400	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20EX0009US	A10-8700P	No	R6 M340DX	8GBx1	14.0" HD	None	192GB SSD	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20EX0008US	A10-8700P	No	R6 M340DX	4GBx1	14.0" HD	None	500GB 5400	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EX000EUS	A10-8700P	No	R6 M340DX	8GBx1	14.0" HD	None	192GB SSD	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EX000BUS	A10-8700P	No	R6 M340DX	8GBx1	14.0" HD	None	500GB 5400	None	BCM ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E465 Platform Specifications sheet*

Processor

AMD Accelerated Processor A6, A8, or A10 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M330
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)

Graphics

AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A8 and A10 APU
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset

AMD SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

Ethernet

Gigabit Ethernet Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm
PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm

Weight

From 4.27 lb (1.94kg)

Case color

Graphite black

Case material

Aluminum: Aluminum display cover
PC/ABS: PC/ABS plastic display cover

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (47Wh)

Battery life

Up to 6.5 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad E550



Lenovo ThinkPad E550



Lenovo ThinkPad E550

ThinkPad E550 Platform Specifications

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i3-5015U	2	4	2.1 GHz		3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics

Intel HD Graphics in processor only, or
AMD Radeon R7 M260 Graphics, 2GB DDR3 memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch

Some: supports 10-finger gesture

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical

Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

M.2 SSD

None

Ethernet

Intel WGI218V Gigabit Ethernet Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN

None

SIM card

None

Smart Card Read

None

ExpressCard

None

Dimensions

None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight

6-cell None Touch: from 5.21 lb (2.35kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45),
external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable

None

Camera

Some: 0.3-megapixel, fixed focus
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support

HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers or JBL speakers, 2W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Some: Trusted Platform Module, TCG 1.2-compliant

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (48Wh)

Battery life

6-cell (48Wh): up to 9.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Evernote
- Maxthon Cloud Browser
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E550 20DF - TopSeller

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF0033US	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	Win8.1 64	1-depot	No	01/15
20DF0043US	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF0044US	i3-4005U	No	HD 4400	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF0045US	i3-4005U	No	HD 4400	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF0046US	i3-4005U	No	HD 4400	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF004BUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF004CUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF004DUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF004EUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF002WUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 64	1-depot	No	01/15
20DF0049US	i3-5005U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF004AUS	i3-5005U	No	HD 5500	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF0048US	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF0047US	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 P64	1-depot	No	01/15
20DF003EUS	i3-5005U	No	HD 5500	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003AUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0035US	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0034US	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003BUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003HUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003LUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E550 Platform Specifications sheet*

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics
Intel HD Graphics in processor only,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
DVD burner, 9.0mm high, removable

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight
6-cell None Touch: from 5.21 lb (2.35kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45),
external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Some: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
45-watt AC adapter (Integrated Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E550 20DF - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF003SUS	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0036US	i3-4005U	No	HD 4400	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003MUS	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003JUS	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003TUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003UUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003CUS	i3-5005U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003DUS	i3-5005U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003RUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003PUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003FUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003KUS	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003VUS	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0038US	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0037US	i3-4005U	No	HD 4400	8GBx1	15.6" HD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF002YUS	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003QUS	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003NUS	i5-5200U	No	HD 5500	8GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0039US	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0030US	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF003GUS	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E550 Platform Specifications sheet*

Processor

4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L -1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics
Intel HD Graphics in processor only,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
DVD burner, 9.0mm high, removable

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight
6-cell None Touch: from 5.21 lb (2.35kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45),
external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Some: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
45-watt AC adapter (Integrated Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E550 20DF (Radeon) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF002XUS	i7-5500U	No	R7 M260	8GBx1	15.6" HD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 P64	1-depot	No	01/15
20DF0042US	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF003XUS	i7-5500U	No	R7 M260	4GBx1	15.6" FHD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0041US	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0040US	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF003YUS	i7-5500U	No	R7 M260	4GBx1	15.6" FHD	None	1TB 5400	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0031US	i7-5500U	No	R7 M260	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0032US	i7-5500U	No	R7 M260	8GBx1	15.6" HD	None	128GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF003WUS	i7-5500U	No	R7 M260	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15

- *For detailed platform specifications, please see ThinkPad E550 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
AMD Radeon R7 M260 Graphics, 2GB DDR3 memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
DVD burner, 9.0mm high, removable

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight
6-cell None Touch: from 5.21 lb (2.35kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45),
external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E550 20DF - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF00C0US	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00BXUS	i3-4005U	No	HD 4400	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	07/15
20DF00C2US	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00C4US	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	07/15
20DF00CQUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00EDUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	0.3M	Numpad	TPM	No	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00EGUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	0.3M	Numpad	TPM	No	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00EEUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	0.3M	Numpad	TPM	No	6 (48wh)	45W	Win10 P64	1-depot	No	08/15
20DF00EFUS	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	08/15

- *For detailed platform specifications, please see ThinkPad E550 Platform Specifications sheet*

Processor — 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500

Graphics — Intel HD Graphics in processor only,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio

Multi-touch — *Some:* supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical — DVD burner, 9.0mm high, removable

M.2 SSD — None

Ethernet — Intel WGI218V Gigabit Ethernet Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — *One of the following, configurable by model:*
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN — None

SIM card — None

Dimensions — *None Touch(WxDxH):* 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight — *6-cell None Touch:* from 5.21 lb (2.35kg)

Case color — Graphite Black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable — None

Camera
Some: 0.3-megapixel, fixed focus
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support — HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — *TPM :* Trusted Platform Module, TCG 1.2-compliant
Soft : Software TPM enabled

vPro — None

Fingerprint reader — *Some:* Fingerprint reader on the keyboard bezel, swipe sensor

NFC — None

Battery type — Li-Ion 6-cell (48Wh)

Battery life — 6-cell (48Wh): up to 9.0 hr

AC adapter — 45-watt AC adapter (Integrated Graphics)

Preload — *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 *Some:* Windows 10 Pro 64

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E550 20DF (Radeon) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF00C3US	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DF00BYUS	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	Soft	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	07/15
20DF00C1US	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	7265 ac+BT4.0	None	None	720p	Numpad	Soft	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	07/15
20DF00CAUS	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	7265 ac+BT4.0	None	None	3D	Numpad	Soft	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E550 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
AMD Radeon R7 M260 Graphics, 2GB DDR3 memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
200 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio

Multi-touch
Some: supports 10-finger gesture

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
DVD burner, 9.0mm high, removable

M.2 SSD
None

Ethernet
Intel WGI218V Gigabit Ethernet Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm

Weight
6-cell None Touch: from 5.21 lb (2.35kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45),
external monitor (VGA DB-15, HDMI), Lenovo OneLink connector

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM : Trusted Platform Module, TCG 1.2-compliant
Soft : Software TPM enabled

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad E555



Lenovo ThinkPad E555



Lenovo ThinkPad E555

ThinkPad E555 Platform Specifications

Processor AMD Accelerated Processor A6, A8, A10, or FX APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB		R5 M240
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 HD
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)
FX-7500	4	4	2.1 GHz	3.3 GHz	4MB		R7 M265DX (R7+R5 M240)

Graphics AMD Radeon™ R4 or R5 HD Graphics in processor only,
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 and FX APU
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display

Chipset AMD A76M FCH Chipset

Memory 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: **15.6"** (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Some: **15.6"** (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio

Multi-touch None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
Some: DVD burner, 9.0mm high, fixed
Some: Blank Bezel

M.2 SSD None

Ethernet Realtek® RTL8111GUS Gigabit Network Connection

Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN *One of the following, configurable by model:*
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN None

SIM card None

Smart Card Read None

ExpressCard None

Dimensions *All (WxDxH):* 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)

Weight From 5.20 lb (2.36kg)

Case color Graphite black

Case material PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable None

Camera HD720p resolution, fixed focus

Audio support HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ None

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip None

vPro None

Fingerprint reader None

NFC None

Battery type Li-Ion 6-cell (48Wh)

Battery life Up to 6.3 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Evernote
- Maxthon Cloud Browser
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™

Some: Windows 10 Pro 64
Some: Windows 10 Home 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty 1-year - depot repair service / service upgrades available

Environment EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E555 20DH (AMD) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DH0028US	A6-7000	R4 HD	4GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002EUS	A6-7000	R4 HD	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002GUS	A8-7100	R5 HD	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002FUS	A8-7100	R5 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002BUS	A8-7100	R5 HD	8GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002LUS	A6-7000	R4 HD	8GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002RUS	A6-7000	R4 HD	8GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002HUS	A8-7100	R5 HD	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002MUS	A8-7100	R5 HD	4GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002DUS	A6-7000	R4 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002QUS	A6-7000	R4 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002SUS	A8-7100	R5 HD	4GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002JUS	A6-7000	R4 HD	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002AUS	A6-7000	R4 HD	4GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002UUS	A8-7100	R5 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002KUS	A8-7100	R5 HD	8GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH0030US	A6-7000	R4 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 64	1-Depot	No	03/15

- *For detailed platform specifications, please see ThinkPad E555 Platform Specifications sheet*

Processor	AMD Accelerated Processor A6, A8 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 HD

Graphics	AMD Radeon™ R4 or R5 HD Graphics in processor only
Chipset Memory	AMD A76M FCH Chipset 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Display	*Some:* 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits *Some:* 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits
Storage Optical M.2 SSD	*Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ *Some:* Hybrid drive with 8GB NAND flash memory *Some:* DVD burner, 9.0mm high, fixed *Some:* Blank Bezel None
Ethernet Bluetooth™	Realtek® RTL8111GUS Gigabit Network Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WLAN	RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
WWAN	None
SIM card	None
Dimensions Weight Case color Case material	*All (WxDxH):* 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) From 5.20 lb (2.36kg) Graphite black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader Ports Monitor cable	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None
Camera Audio support	HD720p resolution, fixed focus HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None
Security Security chip vPro Fingerprint reader NFC	Power-on password, hard disk password, supervisor password, security keyhole None None None None
Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) Up to 6.3 hr 45-watt AC adapter (Integrated Graphics)
Preload	*Some:* No operating system *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit *Some:* Windows 8.1 64-bit *Some:* Windows 8.1 Pro 64-bit
Limited warranty	1-year - depot repair service / service upgrades available
Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E555 20DH (AMD) - Discrete (TopSeller)

Type-model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DH002PUS	A10-7300	R7 M260DX	4GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH002CUS	A10-7300	R7 M260DX	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH0029US	A10-7300	R7 M260DX	8GBx1	15.6" HD	1TB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002NUS	A10-7300	R7 M260DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	01/15
20DH002TUS	A10-7300	R7 M260DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	01/15
20DH0031US	A10-7300	R7 M260DX	8GBx1	15.6" FHD	500GB 7200	DVD±RW	BCM ac+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 P64	1-Depot	No	03/15
20DH002YUS	A6-7000	R5 M240	4GBx1	15.6" HD	500GB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win8.1 DG Win7	1-Depot	No	03/15

- *For detailed platform specifications, please see ThinkPad E555 Platform Specifications sheet*

Processor

AMD Accelerated Processor A6, A8, A10, or FX APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M240
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)
FX-7500	4	4	2.1 GHz	3.3 GHz	4MB		R7 M265DX (R7+R5 M240)

Graphics
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 and FX APU

Chipset
AMD A76M FCH Chipset

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
Some: DVD burner, 9.0mm high, fixed
Some: Blank Bezel

M.2 SSD
None

Ethernet
Realtek® RTL8111GUS Gigabit Network Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)

Weight
From 5.20 lb (2.36kg)

Case color
Graphite black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI,
Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
None

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
Up to 6.3 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E555 20DH (AMD) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DH003AUS	A6-7000	R4 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win10 DG Win7	1-Depot	No	07/15
20DH003CUS	A6-7000	R4 HD	4GBx1	15.6" HD	500G 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win10 P64	1-Depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E555 Platform Specifications sheet*

Processor — AMD Accelerated Processor A6, A8 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 HD

Graphics — AMD Radeon™ R4 or R5 HD Graphics in processor only

Chipset — AMD A76M FCH Chipset

Memory — 16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
- *Some:* 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits
- *Some:* 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits

Storage
- *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™
- *Some:* Hybrid drive with 8GB NAND flash memory

Optical
- *Some:* DVD burner, 9.0mm high, fixed
- *Some:* Blank Bezel

M.2 SSD — None

Ethernet — Realtek® RTL8111GUS Gigabit Network Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN — None

SIM card — None

Dimensions — *All (WxDxH):* 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)

Weight — From 5.20 lb (2.36kg)

Case color — Graphite black

Case material — PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — None

Fingerprint reader — None

NFC — None

Battery type — Li-Ion 6-cell (48Wh)

Battery life — Up to 6.3 hr

AC adapter — 45-watt AC adapter (Integrated Graphics)

Preload — *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 *Some:* Windows 10 Pro 64

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad E555 20DH (AMD) - Discrete (TopSeller) - Win10

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DH0039US	A10-7300	R7 M260DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win10 P64	1-Depot	No	07/15
20DH003BUS	A10-7300	R7 M260DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	RTL bgn+BT	No	No	720p	Numpad	No	6(48wh)	Win10 DG Win7	1-Depot	No	07/15

- *For detailed platform specifications, please see ThinkPad E555 Platform Specifications sheet*

Processor

AMD Accelerated Processor A6, A8, A10, or FX APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M240
A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240
A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)
FX-7500	4	4	2.1 GHz	3.3 GHz	4MB		R7 M265DX (R7+R5 M240)

Graphics
AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A10 and FX APU

Chipset
AMD A76M FCH Chipset

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™
Some: Hybrid drive with 8GB NAND flash memory

Optical
Some: DVD burner, 9.0mm high, fixed
Some: Blank Bezel

M.2 SSD
None

Ethernet
Realtek® RTL8111GUS Gigabit Network Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)

Weight
From 5.20 lb (2.36kg)

Case color
Graphite black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI,
Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 /
stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

vPro
None

Fingerprint reader
None

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
Up to 6.3 hr

AC adapter
65-watt AC adapter (Discrete Graphics)

Preload
Some: Windows® 7 Professional 64 *Some:* Windows 10 Pro 64
preinstalled through downgrade
rights in Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad E560



Lenovo ThinkPad E560



Lenovo ThinkPad E560

ThinkPad E560 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor and Celeron Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 510
i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
i7-6500U	2	4	2.5 GHz	3.1 GHz	4MB	DDR3L-1600	Intel HD Graphics 520

Graphics

Intel HD Graphics in processor only, or
AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent displays;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,
220 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS,
250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

M.2 SSD

None

Ethernet

Gigabit Ethernet Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card
- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight

From 5.39 lb (2.45kg)

Case color

Graphite Black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio/microphone jack

Monitor cable

None

Camera

Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers or JBL speakers, 2W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (48Wh)

Battery life

6-cell (48Wh): up to 9.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty

1-year - depot repair service / service upgrades available

Mil-Spec test

None

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(GDN2-Spec) November 2015

ThinkPad E560 20EV - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EV002LUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20EV002PUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20EV002MUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20EV002NUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20EV002QUS	i5-6200U	No	HD 520	8GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20EV002FUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV002EUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV002HUS	i5-6200U	No	HD 520	8GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV002DUS	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV002GUS	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E560 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i3 / i5 Processor and Celeron Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 510
i3-6100U	2	4	2.3 GHz	-	3MB		Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		

Graphics
Intel HD Graphics in processor only, or
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

Ethernet
Gigabit Ethernet Connection

Bluetooth™
Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight
From 5.39 lb (2.45kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader
None

ExpressCard
None

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support
HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty
1-year - depot repair service / service upgrades available

Mil-Spec test
None

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(E5601-1) November 2015

ThinkPad E560 20EV (Radeon) - TopSeller

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EV0027US	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	8260 ac+BT	None	None	3D	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	11/15
20EV002SUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	11/15
20EV002RUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	11/15
20EV002JUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV002KUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV003FUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	256GB SSD SATA3.0 Opal2	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	04/16
20EV003EUS	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	256GB SSD SATA3.0 Opal2	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad E560 Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
i7-6500U			2.5 GHz	3.1 GHz	4MB		

Graphics
AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
*S*ome: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch
None

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

Ethernet
Gigabit Ethernet Connection

Bluetooth™
Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN
None

SIM card
None

Dimensions
All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight
From 5.39 lb (2.45kg)

Case color
Graphite Black

Case material
PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader
None

ExpressCard
None

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio/microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera with MIC

Audio support
HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers or JBL speakers, 2W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Ion 6-cell (48Wh)

Battery life
6-cell (48Wh): up to 9.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty
1-year - depot repair service / service upgrades available

Mil-Spec test
None

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad E565



Lenovo ThinkPad E565



Lenovo ThinkPad E565

ThinkPad E565 Platform Specifications

Processor

AMD Accelerated Processor A6, A8, A10, or FX APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 Graphics
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)
FX-8800P	4	12	2.1 GHz	3.4 GHz	2MB		R8 M350DX (R7+R5 M330)

Graphics

AMD Radeon™ R5 or R6 Graphics in processor only, or
AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A8, A10 and FX APU
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display

Chipset

AMD SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: **15.6"** (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: **15.6"** (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

M.2 SSD

None

Ethernet

Gigabit Network Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight

From 5.46 lb (2.48kg)

Case color

Graphite black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio/microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (48Wh)

Battery life

Up to 6.5 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad E565 20EY - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EY000AUS	A6-8500P	R5	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY0008US	A6-8500P	R5	8GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000KUS	A6-8500P	R5	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY000FUS	A6-8500P	R5	8GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM	No	6(48wh)	Win10 P64	1-Depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E565 Platform Specifications sheet*

Processor

AMD Accelerated Processor A6, A8 APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 Graphics

Graphics

AMD Radeon™ R5 or R6 Graphics in processor only,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);

Chipset

AMD SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: **15.6"** (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: **15.6"** (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

Ethernet

Gigabit Network Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight

From 5.46 lb (2.48kg)

Case color

Graphite black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45),
Lenovo OneLink connector, combo audio/microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ /
stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (48Wh)

Battery life

Up to 6.5 hr

AC adapter

45-watt AC adapter (Integrated Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(GDN2-1) November 2015

ThinkPad E565 20EY - Discrete (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EY000HUS	A10-8700P	R6 M340DX	8GBx1	15.6" FHD	192GB SSD	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY0006US	A10-8700P	R6 M340DX	8GBx1	15.6" FHD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY0007US	A10-8700P	R6 M340DX	4GBx1	15.6" FHD	192GB SSD	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY0009US	A10-8700P	R6 M340DX	8GBx1	15.6" HD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY000JUS	A10-8700P	R6 M340DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 P64	1-Depot	No	11/15
20EY000EUS	A10-8700P	R6 M340DX	8GBx1	15.6" FHD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000CUS	A10-8700P	R6 M340DX	4GBx1	15.6" HD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000GUS	A10-8700P	R6 M340DX	4GBx1	15.6" FHD	192GB SSD	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000DUS	A10-8700P	R6 M340DX	8GBx1	15.6" FHD	192GB SSD	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000BUS	A10-8700P	R6 M340DX	8GBx1	15.6" HD	500GB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15

- *For detailed platform specifications, please see ThinkPad E565 Platform Specifications sheet*

Processor

AMD Accelerated Processor A8, A10, or FX APU

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics
A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB	DDR3L-1600	R6 M335DX (R6+R5 M330)
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)
FX-8800P	4	12	2.1 GHz	3.4 GHz	2MB		R8 M350DX (R7+R5 M330)

Graphics

AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or
Dual Graphics support for A8, A10 and FX APU
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset

AMD SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Display

Some: **15.6"** (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Some: **15.6"** (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio

Multi-touch

None

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

Some: DVD burner, 9.0mm high, removable
Some: Blank Bezel

Ethernet

Gigabit Network Connection

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:
- BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card

WWAN

None

SIM card

None

Dimensions

All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm

Weight

From 5.46 lb (2.48kg)

Case color

Graphite black

Case material

PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover

Smart Card Reader

None

ExpressCard

None

Multicard Reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Ion 6-cell (48Wh)

Battery life

Up to 6.5 hr

AC adapter

65-watt AC adapter (Discrete Graphics)

Preload

Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo Quick Pick (Accessories & Services)

Lenovo Quick Pick (**http://www.lenovoquickpick.com**) is an options and services configurator for Lenovo systems.

For the options and services information on ThinkPad Laptops, please see below:

ThinkPad L440 *http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l440* **ThinkPad L540** *http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l540*	**ThinkPad L450** *http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l450*	**ThinkPad L460** *http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l460* **ThinkPad L560** *http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l560*
ThinkPad T440 *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440* **ThinkPad T440p** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440p* **ThinkPad T440s** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440s* **ThinkPad T540p** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t540p*	**ThinkPad T450** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t450* **ThinkPad T450s** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t450s* **ThinkPad T550** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t550*	**ThinkPad T460** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t460* **ThinkPad T460p** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t460p* **ThinkPad T460s** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t460s* **ThinkPad T560** *http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t560*
	ThinkPad W541 *http://www.lenovoquickpick.com/usa/system/thinkpad/w-series/w541* **ThinkPad W550s** *http://www.lenovoquickpick.com/usa/system/thinkpad/w-series/w550s*	**ThinkPad P50** *http://www.lenovoquickpick.com/usa/system/thinkpad/p-series/p50* **ThinkPad P50s** *http://www.lenovoquickpick.com/usa/system/thinkpad/p-series/p50s* **ThinkPad P70** *http://www.lenovoquickpick.com/usa/system/thinkpad/p-series/p70*
ThinkPad 11e *http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-1st-gen-intel-windows* **ThinkPad 11e Chromebook** *http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-1st-gen-chromebook*	**ThinkPad 11e (2nd Gen)** *http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-2nd-generation-intel-windows*	**ThinkPad 11e (3rd Gen)** *http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-3rd-gen* **ThinkPad 11e (3rd Gen) Chromebook** *http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-3rd-gen-chromebook*
		ThinkPad 13 *http://www.lenovoquickpick.com/usa/system/thinkpad/13-series/13*
ThinkPad X240 *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x240* **ThinkPad X1 Carbon (2nd Gen)** *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x1-carbon-2nd-gen*	**ThinkPad X250** *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x250* **ThinkPad X1 Carbon (3rd Gen)** *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x1-carbon-3rd-gen*	**ThinkPad X260** *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x260* **ThinkPad X1 Carbon (4th Gen)** *http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x1-carbon-4th-gen*
	ThinkPad E450 *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e450* **ThinkPad E455** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e455* **ThinkPad E550** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e550* **ThinkPad E555** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e555*	**ThinkPad E460** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e460* **ThinkPad E465** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e465* **ThinkPad E560** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e560* **ThinkPad E565** *http://www.lenovoquickpick.com/usa/system/thinkpad/e-edge-series/e565*

Withdrawn Product Books

Disclaimer
Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[5] **TAA:** ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes,
TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[10] **Battery:** These model numbers achieved the battery life based on MobileMark® 2012 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[11] **External monitor:** This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[16] **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.

[17] **International Warranty Service (IWS)** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[19] **Depot repair service:** The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[22] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.

[23] **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T Broadband-Connect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

[26] **Full-size keyboard:** As defined by ISO/IEC 15412.

[30] **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

[24] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

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ThinkPad®

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Visit **www.lenovo.com/safecomputing**
periodically for the latest information on safe and effective computing.

Visit **www.lenovo.com/psref**
for the latest version of
Product Specifications Reference.

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ThinkPad Tablets Convertibles

U.S.

Product Specifications Reference



Version 487, April 2016

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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

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Additions in this update

►**New product(s)**
None

►**New model(s)**
ThinkPad 10 (2nd Gen) new models announced
ThinkPad Yoga 260 new models announced
ThinkPad X1 Yoga new models announced
ThinkPad X1 Tablet new models announced

►**Others**
None

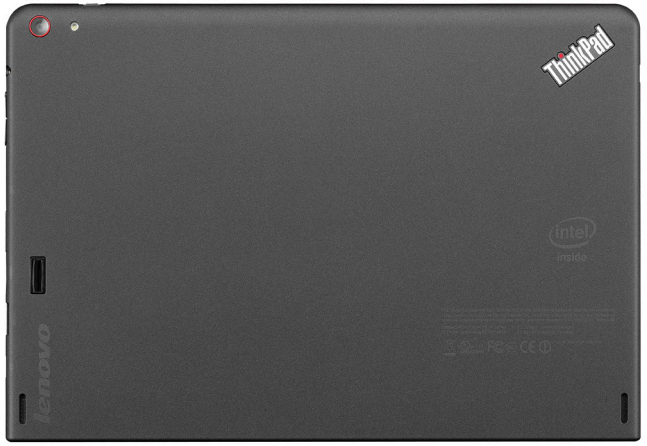
Changes in this update

►None

Withdrawals in this update

►**Withdrawn product(s)**

►None



Lenovo ThinkPad 10



Lenovo ThinkPad 10



Lenovo ThinkPad 10



Lenovo ThinkPad 10



Lenovo ThinkPad 10

ThinkPad 10 (2nd Gen) Platform Specifications

Positioning	*Touchscreen tablet with a full PC experience and superior versatility*
Processor	Intel® Atom Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics
x7-Z8700	4	4	1.60 GHz	2.40 GHz	2MB	LPDDR3-1600	Intel HD Graphics
x7-Z8750	4	4	1.60 GHz	2.56 GHz	2MB	LPDDR3-1600	

Graphics	**Intel HD Graphics** in processor, supports 1080p video out via micro-HDMI™ connector, HDCP-compliant
Chipset	**Intel Atom SoC (System on Chip) platform**
Memory	*Some:* 2GB / 1600MHz LPDDR3, mobile DDR / soldered to systemboard *Some:* 4GB / 1600MHz LPDDR3, mobile DDR / soldered to systemboard *All:* no sockets, dual-channel capable
Display	**10.1"** (256.5mm) **WUXGA (1920x1200) TFT color**, anti-figerprint display with Corning® Gorilla® Glass, WideView (170° viewing), LED backlight, 400 nits, 16:10 aspect ratio, 800:1 contrast ratio, IPS,
Multi-touch	Multi-touch screen, supports ten-finger gesture
Pen	*Optional:* ThinkPad Pen Pro, supports pressure modes / two buttons for input / batteries required (no pen holder in form factor design)
Storage	64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board
Optical	None
Storage extension	One microSD card slot, supports up to 128GB
Ethernet	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WLAN	11ac wireless, BCM4356, 802.11ac, 2x2, WiFi + Bluetooth combo chip
WWAN	*Optional:* Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
SIM card *(Micro)*	None
Smart Card Read	*Optional:* Smart card reader (SCR)
Dimensions	10.09" x 6.96" x 0.36"; 256.5mm x 177.0mm x 9.10mm 10.09" x 6.96" x 0.67"; 256.5mm x 177.0mm x 17.10mm (with SCR)
Weight	*WiFi only:* from 1.32 lb (0.597kg); *WiFi + WWAN:* from 1.36 lb (0.618kg); *WiFi + WWAN + SCR:* from 1.43 lb (0.648kg)
Case color	Graphite black
Case material	Polyamide and Glass Fiber Reinforced
Media reader	One microSD card slot (SDXC/SDHC, UHS-I), supports up to 128GB
Ports	One standard USB 3.0, one micro-HDMI, headphone/microphone combo jack, one Living Hinge Docking connector, one keyboard connector, one micro SIM slot
Monitor cable	None
Control buttons	Windows button, power button, volume control button, reset switch

Camera	*Front camera:* 1.2-megapixel, fixed focus *Rear camera:* 5.0-megapixel, auto focus, flash LED
Video capture	1080p video capture
Audio support	Realtek® ALC5672 codec / stereo speakers, 1.0 watt x 2 / 3 digital front microphones, combo audio/microphone jack
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid
Keyboard	*Non-pro:* Ultrabook keyboard, mechanical keyboard, pen holder *Folio:* Folio keyboard, thin keyboard, pen loop
Security	Kensington lock slot
Security chip	*TPM2.0:* Trusted Platform Module, TPM 2.0 FW (firmware) *TPM1.2:* Trusted Platform Module, TCG 1.2-compliant *TPM:* TPM2.0 and TPM1.2
vPro & iAMT	None
Fingerprint reader	*Optional:* Fingerprint reader on the A Cover
NFC	*Optional:* Near Field Communication
Battery - type	Lithium polymer, 32Whr
Battery - life	up to 26 days (standby); up to 10 hr (local video playback)
AC adapter	36-watt AC adapter
Light sensor	Ambient Light Sensor, InterSil ISL29035
G-sensor	3D accelerometer
Compass	3D compass
Gyroscope	3D gyrometer
GPS	GPS function is integrated into WWAN module
Preload	*Some:* Windows 10 Pro 64 *Some:* Windows 10 Home 64 *Some:* Windows 10 Home Single Language 64 • Lenovo Solution Center • Lenovo Companion (includes System Update) • Lenovo REACHit • Lenovo Settings • Lenovo SHAREit • Lenovo WRITEit • Microsoft® Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions)
Limited warranty	**1-year** - depot repair service/ service upgrades available
Mil-Spec test	MIL-STD-810G military certification
Environment	RoHS, GREENGUARD, Low Halogen

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ThinkPad 10 (2nd Gen) 20E3 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart Card Reader	Color	Camera Front/ Rear (MP)	Keyboard	Smart Cover	TPM	Finger print reader	NFC	Bat-tery	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20E3000QUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	None	None	None	Black	1.2/5.0	None	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000SUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	None	None	None	Black	1.2/5.0	Non-pro	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000TUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	None	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000RUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	Non-pro	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000VUS	Z8700	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	None	None	None	Black	1.2/5.0	None	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000UUS	Z8700	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	None	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000WUS	Z8700	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	Non-pro	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3000XUS	Z8700	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	None	None	None	Black	1.2/5.0	Non-pro	None	TPM2.0	Finger	None	32Wh	Win10 P64	1-Depot	No	07/15
20E3002DUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	Non-pro	None	TPM2.0	Finger	NFC	32Wh	Win10 P64	1-Depot	No	11/15
20E3002EUS	Z8700	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	None	None	TPM2.0	Finger	NFC	32Wh	Win10 P64	1-Depot	No	11/15
20E30033US	Z8750	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	None	None	TPM	Finger	NFC	32Wh	Win10 P64	1-Depot	No	04/16
20E30032US	Z8750	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	None	None	None	Black	1.2/5.0	None	None	TPM	Finger	None	32Wh	Win10 P64	1-Depot	No	04/16
20E30034US	Z8750	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	EM7345	None	None	Black	1.2/5.0	None	None	TPM	Finger	NFC	32Wh	Win10 P64	1-Depot	No	04/16
20E30031US	Z8750	Intel HD	4GB	10.1" WUXGA	MT	No	128G	11ac+BT4.0	EM7345	None	Smart	Black	1.2/5.0	None	None	TPM	Finger	None	32Wh	Win10 P64	1-Depot	No	04/16
20E30035US	Z8750	Intel HD	2GB	10.1" WUXGA	MT	No	64G	11ac+BT4.0	None	None	None	Black	1.2/5.0	None	None	TPM	Finger	None	32Wh	Win10 P64	1-Depot	No	04/16

- *For detailed platform specifications, please see ThinkPad 10 Platform Specifications sheet*

Processor	Intel® Atom Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics
x7-Z8700	4	4	1.60 GHz	2.40 GHz	2MB	LPDDR3-1600	Intel HD Graphics
x7-Z8750	4	4	1.60 GHz	2.56 GHz	2MB	LPDDR3-1600	

Graphics	**Intel HD Graphics** in processor
Chipset	**Intel Atom SoC (System on Chip) platform**
Memory	*Some:* 2GB / 1600MHz LPDDR3, mobile DDR / soldered to systemboard *Some:* 4GB / 1600MHz LPDDR3, mobile DDR / soldered to systemboard
Display	**10.1"** (256.5mm) **WUXGA (1920x1200) TFT color**, WideView (170° viewing), LED backlight, 400 nits, 16:10 aspect ratio, 800:1 contrast ratio, IPS,
Multi-touch	Multi-touch screen, supports ten-finger gesture
Pen	*Optional:* ThinkPad Pen Pro, batteries required
Storage	64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board
Storage extension	One microSD card slot, supports up to 128GB
Ethernet	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WLAN	11ac wireless, BCM4356, 802.11ac, 2x2, WiFi + Bluetooth combo chip
WWAN	*Optional:* Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS
SIM card *(Micro)*	None
Smart Card Read	*Optional:* Smart card reader (SCR)
Dimensions	10.09" x 6.96" x 0.36"; 256.5mm x 177.0mm x 9.10mm 10.09" x 6.96" x 0.67"; 256.5mm x 177.0mm x 17.10mm (with SCR)
Weight	*WiFi only:* from 1.32 lb (0.597kg); *WiFi + WWAN:* from 1.36 lb (0.618kg); *WiFi + WWAN + SCR:* from 1.43 lb (0.648kg)
Case color	Graphite black
Case material	Polyamide and Glass Fiber Reinforced

Media reader	One microSD card slot (SDXC/SDHC, UHS-I), supports up to 128GB
Ports	One standard USB 3.0, one Micro-HDMI, headphone/microphone combo jack, one Living Hinge Docking connector, one keyboard connector, one micro SIM slot
Monitor cable	None
Control buttons	Windows button, power button, volume control button, reset switch
Camera	*Front camera:* 1.2-megapixel, fixed focus *Rear camera:* 5.0-megapixel, auto focus, flash LED
Video capture	1080p video capture
Audio support	Realtek® ALC5672 codec / stereo speakers, 1.0 watt x 2 / 3 digital front microphones, combo audio/microphone jack
Keyboard	*Non-pro:* Ultrabook keyboard, mechanical keyboard, pen holder *Folio:* Folio keyboard, thin keyboard, pen loop
Security	Kensington lock slot
Security chip	*TPM2.0:* Trusted Platform Module, TPM 2.0 FW (firmware) *TPM1.2:* Trusted Platform Module, TCG 1.2-compliant *TPM:* TPM2.0 and TPM1.2
Fingerprint reader	*Optional:* Fingerprint reader on the A Cover
NFC	*Optional:* Near Field Communication
Battery - type	Lithium polymer, 32Whr
Battery - life	up to 26 days (standby); up to 10 hr (local video playback)
AC adapter	36-watt AC adapter
Light sensor	Ambient Light Sensor, InterSil ISL29035
G-sensor	3D accelerometer
Compass	3D compass
Gyroscope	3D gyrometer
GPS	GPS function is integrated into WWAN module
Preload	*Some:* Windows 10 Pro 64 *Some:* Windows 10 Home 64
Limited warranty	**1-year** - depot repair service/ service upgrades available
Environment	RoHS, GREENGUARD, Low Halogen

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Lenovo® ThinkPad Helix



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Lenovo ThinkPad Helix

ThinkPad Helix (2nd Gen) Platform Specifications

Positioning
Convertible with many modes - Tent, Notebook, Stand, Desktop, and Tablet

Processor
5th Generation Intel® Core™ M or Core M vPro™ Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10	2	4	0.8 GHz	2.0 GHz	4MB	LPDDR3-1600	Intel HD graphics 5300	No
5Y70			1.1 GHz	2.6 GHz				Yes
5Y10C			0.8 GHz	2.0 GHz				No
5Y71			1.2 GHz	2.9 GHz				Yes

Graphics
Intel HD Graphics 5300 in processor,
external digital monitor support via micro HDMI, dual independent display;
Max external resolution: 1920x1080 (micro HDMI)@60Hz

Chipset
Intel Core M & Intel Core M vPro

Memory
8GB max / PC3-12800 1600MHz LPDDR3, soldered to systemboard, no sockets

Display
11.6" (295mm) FHD (1920x1080) TFT color,
VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Digitizer Pen
Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required

Storage
M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL

Optical
None

Ethernet
None

WLAN
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 Card

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN
Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

Micro SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider
- User selectable, contract required with service provider

Smart Card Read
Optional: Smart Card reader

Monitor Cable
Optional: Micro-HDMI to VGA monitor cable

Light sensor
Ambient Light Sensor

G-sensor/ eCompass
3D accelerometer and 3D magnetometer
3D compass, 3D inclinometer

Gyroscope
3D gyrometer

Dimensions
11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)
11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm)

Tablet Weight

WiFi/Touch	*WiFi/Digitizer*	*WWAN/Touch*	*WWAN/Digitizer*	*SmartCard*
795g	822g	795g	822g	*855g*
1.75 lb	1.81 lb	1.75 lb	1.81 lb	1.88 lb

Keyboard weight
Ultrabook Pro Keyboard: 900g/1.98 lb
Ultrabook Keyboard: 560g/1.23 lb

Case color
Graphite black

Case material
PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

Multicard reader
Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)

Tablet ports
One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

Camera
Front camera: 2.0-megapixel, 1080p resolution, fixed focus
Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Audio support
HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

Control buttons
Windows button, Power button, volume button, rotation lock switch, reset switch

Keyboard *(optional)*
Pro: Ultrabook Pro Keyboard, (Battery keyboard)6-row, TrackPoint® pointing device, MultiTouch with 3+2 buttons click pad, security keyhole, one USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 26Wh), 36-watt AC adapter can charge both the Tablet battery and Keyboard battery, pen holder, backlight
Non-pro: Ultrabook Keyboard, (Mechanical keyboard) 6-row, touchpad w/ 2 integrated buttons, one USB 2.0, pen holder
Folio: Folio Keyboard, thin keyboard, no ports, pen holder

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Optional: Trusted Platform Module, TCG 1.2-compliant

vPro
Optional: Intel vPro Technology

Fingerprint reader
Fingerprint reader

NFC
Optional: Near Field Communication

Smart Cover
Optional: Quickshot cover

Tablet battery
Integrated Li-Polymer 2-cell (35Wh)

Keyboard battery
Li-Polymer 4-cell (26Wh)

Battery - life

Battery configuration	*2-cell*	*2-cell + 4-cell*
Battery life	8 hr	12 hr

AC adapter
36-watt AC adapter

Preload
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Lenovo Reach
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo REACHit
- Lenovo SHAREit
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty
One of the following, configurable by model:
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

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(DK1-Spec) August 2015

ThinkPad Helix (2nd Gen) 20CG (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Memory	Display	Pen	Graphics	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Top Color	Camera Front/ Rear (MP)	Keyboard	Finger print reader	NFC	battery cells (int+ext)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20CG000QUS	5Y70	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	11/14
20CG000LUS	5Y10	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	11/14
20CG000NUS	5Y70	vPro	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	11/14
20CG000MUS	5Y10	None	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	11/14
20CG000PUS	5Y70	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	11/14
20CG000KUS	5Y10	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 64	1-Depot	No	11/14
20CG000SUS	5Y10	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	1-Depot	No	11/14
20CG000RUS	5Y70	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Non-pro	Finger	None	2+0	Win8.1 P64	1-Depot	No	11/14
20CG0036US	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Pro	Finger	NFC	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0031US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0030US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0037US	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	180G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Pro	Finger	NFC	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0033US	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	180G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0034US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	180G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0035US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Pro	Finger	NFC	2+0	Win8.1 P64	3-Depot	No	01/15
20CG002YUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG0032US	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	3-Depot	No	01/15
20CG001YUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	1-Depot	No	03/15
20CG0021US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	1-Depot	No	03/15
20CG004WUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win8.1 P64	1-Depot	No	03/15

- *For detailed platform specifications, please see ThinkPad Helix Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ M or Core M vPro™ Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10	2	4	0.8 GHz	2.0 GHz	4MB	LPDDR3-1600	Intel HD graphics 5300	No
5Y70			1.1 GHz	2.6 GHz				Yes
5Y10C			0.8 GHz	2.0 GHz				No
5Y71			1.2 GHz	2.9 GHz				Yes

Graphics — Intel HD Graphics 5300 in processor

Chipset — Intel Core M & Intel Core M vPro

Memory — 8GB max / PC3-12800 1600MHz LPDDR3, soldered to system board, no sockets

Display — 11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Digitizer Pen — Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required

Storage — M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL

Optical — None

Ethernet — None

WLAN[4] — 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 Card

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — *Optional:* Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

Micro SIM card — None

Smart Card Read — *Optional:* Smart Card reader

Monitor Cable — None

Light sensor — Ambient Light Sensor

G-sensor/ eCompass — 3D accelerometer and 3D magnetometer; 3D compass, 3D inclinometer

Gyroscope — 3D gyrometer

Dimensions — *11.6W" WLAN/WWAN:* 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)
11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm)

Tablet Weight

WiFi/Touch	*WiFi/Digitizer*	*WWAN/Touch*	*WWAN/Digitizer*	*SmartCard*
795g	822g	795g	822g	*855g*
1.75 lb	1.81 lb	1.75 lb	1.81 lb	1.88 lb

Case color — Graphite black

Case material — PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

Multicard reader — Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)

Tablet ports — One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

Camera — *Front camera:* 2.0-megapixel, 1080p resolution, fixed focus
Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Audio support — HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

Control buttons — Windows button, Power button, volume button, rotation lock switch, reset switch

Keyboard — *Pro:* Ultrabook Pro Keyboard, Battery keyboard, pen holder, backlight

(optional) — *Non-pro:* Ultrabook Keyboard, Mechanical keyboard, pen holder

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — *Optional:* Intel vPro Technology

Fingerprint reader — Fingerprint reader

NFC — *Optional:* Near Field Communication

Smart Cover — None

Tablet battery — Integrated Li-Polymer 2-cell (35Wh)

Battery - life — Up to 8 hrs

AC adapter — 36-watt AC adapter

Preload — *Some:* Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty — *One of the following, configurable by model:*
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad Helix (2nd Gen) 20CG (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Memory	Display	Pen	Graphics	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Top Color	Camera Front/ Rear (MP)	Keyboard	Finger print reader	NFC	battery cells (int+ext)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20CG005BUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 64	1-Depot	No	06/15
20CG005AUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	3-Depot	No	06/15
20CG005CUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	1-Depot	No	06/15
20CG005EUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Folio	Finger	NFC	2+0	Win8.1 P64	3-Depot	No	06/15
20CG005NUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Folio	Finger	NFC	2+0	Win8.1 P64	1-Depot	No	06/15
20CG005GUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Folio	Finger	NFC	2+0	Win8.1 P64	1-Depot	No	06/15
20CG005MUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Folio	Finger	NFC	2+0	Win8.1 P64	3-Depot	No	06/15
20CG005HUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 64	3-Depot	No	06/15
20CG005DUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 64	1-Depot	No	06/15
20CG005KUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	1-Depot	No	06/15
20CG005FUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	3-Depot	No	06/15
20CG0059US	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 64	3-Depot	No	06/15
20CG005JUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	3-Depot	No	06/15
20CG005LUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win8.1 P64	1-Depot	No	06/15

- *For detailed platform specifications, please see ThinkPad Helix Platform Specifications sheet*

Processor — 5th Generation Intel® Core™ M or Core M vPro™ Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10	2	4	0.8 GHz	2.0 GHz	4MB	LPDDR3-1600	Intel HD graphics 5300	No
5Y70			1.1 GHz	2.6 GHz				Yes
5Y10C			0.8 GHz	2.0 GHz				No
5Y71			1.2 GHz	2.9 GHz				Yes

Graphics — Intel HD Graphics 5300 in processor

Chipset — Intel Core M & Intel Core M vPro

Memory — 8GB max / PC3-12800 1600MHz LPDDR3, soldered to system board, no sockets

Display — 11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Pen — Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required

Storage — M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL

Optical — None

Ethernet — None

WLAN[4] — 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 Card

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — *Optional:* Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

Micro SIM card — None

Smart Card Read — *Optional:* Smart Card reader

Monitor Cable — None

Light sensor — Ambient Light Sensor

G-sensor/ eCompass — 3D accelerometer and 3D magnetometer

3D compass, 3D inclinometer

Gyroscope — 3D gyrometer

Dimensions — *11.6W" WLAN/WWAN:* 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)
11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm)

Tablet Weight

WiFi/Touch	*WiFi/Digitizer*	*WWAN/Touch*	*WWAN/Digitizer*	*SmartCard*
795g	822g	795g	822g	*855g*
1.75 lb	1.81 lb	1.75 lb	1.81 lb	1.88 lb

Case color — Graphite black

Case material — PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

Multicard reader — Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)

Tablet ports — One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

Camera — *Front camera:* 2.0-megapixel, 1080p resolution, fixed focus
Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Audio support — HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

Control buttons — Windows button, Power button, volume button, rotation lock switch, reset switch

Keyboard — *Pro:* Ultrabook Pro Keyboard, Battery keyboard, pen holder, backlight

(optional) — *Non-pro:* Ultrabook Keyboard, Mechanical keyboard, pen holder
Folio: Folio Keyboard, thin keyboard, pen holder

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — *Optional:* Intel vPro Technology

Fingerprint reader — Fingerprint reader

NFC — *Optional:* Near Field Communication

Smart Cover — None

Tablet battery — Integrated Li-Polymer 2-cell (35Wh)

Battery - life — Up to 8 hrs

AC adapter — 36-watt AC adapter

Preload — *Some:* Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty — *One of the following, configurable by model:*
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad Helix (2nd Gen) 20CG (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Memory	Display	Pen	Graphics	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Top Color	Camera Front/ Rear (MP)	Keyboard	Finger print reader	NFC	battery cells (int+ext)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20CG006RUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win10 P64	1-Depot	No	07/15
20CG006SUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win10 P64	1-Depot	No	07/15
20CG006LUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Folio	Finger	NFC	2+0	Win10 P64	1-Depot	No	07/15
20CG006TUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	EM7345	None	None	Black	2.0/5.0	Pro	Finger	NFC	2+0	Win10 P64	1-Depot	No	07/15
20CG006NUS	5Y10C	None	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win10 P64	1-Depot	No	07/15
20CG006PUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Folio	Finger	None	2+0	Win10 P64	1-Depot	No	07/15
20CG006QUS	5Y71	vPro	4GB	11.6" FHD	Digitizer	HD 5300	128G SSD	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win10 P64	1-Depot	No	07/15
20CG006MUS	5Y71	vPro	8GB	11.6" FHD	Digitizer	HD 5300	256G OPAL	7265 ac+BT	None	None	None	Black	2.0/5.0	Pro	Finger	None	2+0	Win10 P64	1-Depot	No	07/15

- *For detailed platform specifications, please see ThinkPad Helix Platform Specifications sheet*

Processor

5th Generation Intel® Core™ M or Core M vPro™ Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10	2	4	0.8 GHz	2.0 GHz	4MB	LPDDR3-1600	Intel HD graphics 5300	No
5Y70			1.1 GHz	2.6 GHz				Yes
5Y10C			0.8 GHz	2.0 GHz				No
5Y71			1.2 GHz	2.9 GHz				Yes

Graphics: Intel HD Graphics 5300 in processor

Chipset: Intel Core M & Intel Core M vPro

Memory: 8GB max / PC3-12800 1600MHz LPDDR3, soldered to system board, no sockets

Display: 11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Digitizer Pen: Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required

Storage: M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL

Optical: None

Ethernet: None

WLAN[4]: 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 Card

Bluetooth™: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN: *Optional:* Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

Micro SIM card: None

Smart Card Read: *Optional:* Smart Card reader

Monitor Cable: None

Light sensor: Ambient Light Sensor

G-sensor/ eCompass: 3D accelerometer and 3D magnetometer

3D compass, 3D inclinometer

Gyroscope: 3D gyrometer

Dimensions: *11.6W" WLAN/WWAN:* 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)
11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm)

Tablet Weight

WiFi/Touch	*WiFi/Digitizer*	*WWAN/Touch*	*WWAN/Digitizer*	*SmartCard*
795g	822g	795g	822g	*855g*
1.75 lb	1.81 lb	1.75 lb	1.81 lb	1.88 lb

Case color: Graphite black

Case material: PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

Multicard reader: Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)

Tablet ports: One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

Camera: *Front camera:* 2.0-megapixel, 1080p resolution, fixed focus
Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Audio support: HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

Control buttons: Windows button, Power button, volume button, rotation lock switch, reset switch

Keyboard *(optional)*:
Pro: Ultrabook Pro Keyboard, Battery keyboard, pen holder, backlight
Non-pro: Ultrabook Keyboard, Mechanical keyboard, pen holder
Folio: Folio Keyboard, thin keyboard, no ports, pen holder

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: None

vPro: *Optional:* Intel vPro Technology

Fingerprint reader: Fingerprint reader

NFC: *Optional:* Near Field Communication

Smart Cover: None

Tablet battery: Integrated Li-Polymer 2-cell (35Wh)

Battery - life: Up to 8 hrs

AC adapter: 36-watt AC adapter

Preload: Windows 10 Pro 64

Limited warranty: *One of the following, configurable by model:*
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available

Environment: EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad P40 Yoga





Lenovo ThinkPad P40 Yoga





Lenovo ThinkPad P40 Yoga

ThinkPad P40 Yoga Platform Specifications

Processor

6th Generation Intel® Core™ i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i7-6500U	2	4	2.5 GHz	3.1 GHz	4MB	DDR3L-1600	Intel HD Graphics 520	No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics

Intel HD Graphics 520 in processor and
Nvidia Quadro M500M Graphics, 2GB DDR3 memory,
supports external digital monitor via HDMI, or Mini DisplayPort;
supports dual independent display;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / 1600MHz DDR3L / one 204-pin SO-DIMM sockets

Display

Some: 14.0" (355mm) WQHD (2560x1440), glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio

Multi-touch

Capacitive touch panel, supports 10-finger gesture

Hinge

Yoga hinge, 360 degree

Convert-mode

Laptop, tent, stand, and tablet

Pen

ThinkPad Pen Pro, active pen for multi-touch display

Storage

SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high

Optical

None

Ethernet

Gigabit Ethernet via optional Ethernet (RJ-45) adapter
(by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))

WLAN

11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card

Micro-SIM card slot

Dimensions

WxDxH: 13.30" x 9.30" x 0.78"; 338.0mm x 236.3mm x 19.9mm

Weight

From 3.96 lb (1.80kg)

Case color

Black

Case materal

Carbon-Fiber Hybrid

Smart card reader

None

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Adapter *(optional)*

HDMI-VGA: Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Swipe fingerprint reader under C cover

NFC

None

Battery type

Li-Polymer 3-cell (53Wh)

Battery life

Up to 8.0 hr

AC adapter

65W AC adapter

Light sensor

Ambient Light Sensor

G-sensor

3D accelerometer

Compass

3D compass

Gyroscope

3D gyrometer

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

ThinkPad P40 Yoga 20GQ - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Adapter	Camera	Key-board	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20GQ000EUS	i7-6600U	vPro	M500M	16GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	3 (53wh)	65W	Win10 P64	1-depot	No	02/16
20GQ000CUS	i7-6600U	vPro	M500M	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	3 (53wh)	65W	Win10 P64	1-depot	No	02/16
20GQ000BUS	i7-6500U	No	M500M	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	3 (53wh)	65W	Win10 P64	1-depot	No	02/16

- *For detailed platform specifications, please see ThinkPad P40 Yoga Platform Specifications sheet*

Processor

6th Generation Intel® Core™ i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i7-6500U	2	4	2.5 GHz	3.1 GHz	4MB	DDR3L-1600	Intel HD Graphics 520	No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics
Intel HD Graphics 520 in processor and
Nvidia Quadro M500M Graphics, 2GB DDR3 memory,
supports external digital monitor via HDMI, or Mini DisplayPort;

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / 1600MHz DDR3L / one 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) WQHD (2560x1440), glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio

Multi-touch
Capacitive touch panel, supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convert-mode
Laptop, tent, stand, and tablet

Pen
ThinkPad Pen Pro, active pen for multi-touch display

Storage
SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high

Optical
None

WLAN
11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card

Bluetooth™
Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card
Micro-SIM card slot

Dimensions *WxDxH:* 13.30" x 9.30" x 0.78"; 338.0mm x 236.3mm x 19.9mm

Weight
From 3.96 lb (1.80kg)

Case color
Black

Case materal
Carbon-Fiber Hybrid

Smart card reader
None

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Adapter *(optional)*
HDMI-VGA: Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Swipe fingerprint reader under C cover

NFC
None

Battery type
Li-Polymer 3-cell (53Wh)

Battery life
Up to 8.0 hr

AC adapter
65W AC adapter

Light sensor
Ambient Light Sensor

G-sensor
3D accelerometer

Compass
3D compass

Gyroscope
3D gyrometer

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64
For ISV certifications, please visit www.lenovo.com/support/ISV

Limited warranty
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo ThinkPad X1 Tablet



Lenovo ThinkPad X1 Tablet



Lenovo ThinkPad X1 Tablet



Lenovo ThinkPad X1 Tablet



Lenovo ThinkPad X1 Tablet

ThinkPad X1 Tablet Platform Specifications

Processor — 6th Generation Intel® Core™ M Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	vPro
m3-6Y30	2	4	0.90 GHz	2.20 GHz	4MB	LPDDR3-1866	Intel HD Graphics 515	No
m5-6Y54	2	4	1.10 GHz	2.70 GHz	4MB			No
m5-6Y57	2	4	1.10 GHz	2.80 GHz	4MB			Yes
m7-6Y75	2	4	1.20 GHz	3.10 GHz	4MB			Yes

Graphics — Intel HD Graphics 515 in processor, supports 1080p video out via Mini DisplayPort connector

Chipset — Intel SoC (System on Chip) platform

Memory
- *Some:* 4GB / 1866MHz LPDDR3, mobile DDR / soldered to systemboard
- *Some:* 8GB / 1866MHz LPDDR3, mobile DDR / soldered to systemboard
- *Some:* 16GB / 1866MHz LPDDR3, mobile DDR / soldered to systemboard
- *All:* no sockets, dual-channel capable

Display — 12.0" (304.8mm) FHD+ (2160x1440), glare, LED backlight, IPS, anti-figerprint display with Corning® Gorilla® Glass, WideView (170° viewing), 360 nits, 3:2 aspect ratio, 800:1 contrast ratio

Multi-touch — Capacitive touch panel, supports ten-finger gesture

Pen — *Optional:* ThinkPad Pen Pro, active pen for multi-touch display

Kick stand — Opening angle up to 90 degrees

Storage
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical — None

Storage extension — One microSD card slot, supports up to 64GB

Ethernet — None

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with IR camera):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — *One of the following, configurable by model:*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card — Nano-SIM, optional Lenovo Connect (WE) SIM card

Dimensions — *Tablet only:* 11.48" x 8.25" x 0.34"; 291.5mm x 209.5mm x 8.75mm

Weight
- *Tablet only:* from 1.69 lb, 767g;
- *Tablet+keyboard:* from 2.35 lb, 1.07kg (767g+300g);
- *Tablet+keyboard+Productivity:* from 2.89 lb, 1.31kg (767g+300g+245g);
- *Tablet+Productivity:* from 2.23 lb, 1.01kg (767g+245g);
- *Tablet+Presenter:* from 2.15 lb, 0.98kg (767g+210g);
- *Tablet+3D Imgaging:* from 2.06 lb, 0.94kg (767g+168g)

Case color — Black

Case material — Magnesium + PPS Hybrid injection

Smart Card Read — *Optional:* NFC-compatible smart card reader via NFC

Media reader — One microSD card slot (micro SD/SDXC/SDHC), supports up to 64GB

Ports — One standard USB 3.0, one USB Type-C, one Mini DisplayPort, headphone/microphone combo jack, one Pogo keyboard connector, one cartrige connector for optional modules, one nano-SIM slot

Control buttons — Power button, volume control button, reset switch

WiGig dock — *Optional:* WiGig dock, mutually exclusive with IR camera

Adapter *(optional)*
- *mDP-HDMI:* Lenovo Mini DisplayPort to HDMI Monitor Cable
- *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable
- *USB-RJ45:* USB 3.0 to RJ45 adapter
- *USB-C-VGA:* USB-C to VGA plus power adapter
- *USB-C-HDMI:* USB-C to HDMI plus power adapter

Camera
- *Front camera:* 2.0-megapixel, fixed focus
- *Rear camera:* 8.0-megapixel, auto focus, flash LED

Optional Cameras
- *3D camera:* RealSense R200 3D camera on 3D Imaging module
- *IR camera:* infra-red (IR) camera, mutually exclusive WiGig and NFC

Video capture — 1080p video capture

Audio support — Realtek® ALC3268 codec / stereo speakers, 0.5 watt x 2 / three microphones, combo audio/microphone jack

Pogo Keyboard — Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, LED backlit

Keyboard color — Black, red, and silver

Security — Kensington lock slot

Security chip — *TPM:* TPM2.0 and TPM1.2

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style Fingerprint reader

NFC — *Optional:* Near Field Communication, mutually exclusive IR camera

Battery - type — Lithium polymer, 37Whr

Battery - life — up to 10 hr (local video playback)

AC adapter — 45-watt USB Type-C adapter

Light sensor — Ambient Light Sensor

G-sensor — 3D accelerometer

Compass — 3D compass

Gyroscope — 3D gyrometer

GPS — GPS function is integrated into WWAN module

Modules
- *base:* Dummy base cartridge
- *Pro:* Productivity module,USB3.0 x 1, HDMI, OneLink+, 5 hrs battery (24Whr)
- *Pico:* Presenter module, Pico projector, HDMI and 10Whr battery for presenter
- *3D:* 3D Imaging module, USB3.0 x 1, RealSense 3D camera and HDMI

Preload
- *Some:* Windows 10 Pro 64
- *Some:* Windows 10 Home 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo Settings
- Microsoft® Office preloaded; purchase a product key to activate

Limited warranty — 1-year - depot repair service/ service upgrades available
3-year - depot repair service/ service upgrades available

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold, RoHS, GREENGUARD, Low Halogen

ThinkPad X1 Tablet 20GG (TopSeller)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart Card Reader	WiGig	Adapter	Camera Front/ Rear (MP)	Keyboard	Finger print reader	NFC	Modules	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20GG0000US	m3-6Y30	No	Intel HD	4GB	12.0" FHD+	MT	Pen Pro	192GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001MUS	m3-6Y30	No	Intel HD	4GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001QUS	m7-6Y75	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	512GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	02/16
20GG001JUS	m5-6Y57	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	192GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	02/16
20GG001LUS	m5-6Y57	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	512GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	02/16
20GG001KUS	m5-6Y57	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001VUS	m5-6Y57	vPro	Intel HD	4GB	12.0" FHD+	MT	Pen Pro	128GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001PUS	m7-6Y75	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	02/16
20GG001UUS	m3-6Y30	No	Intel HD	4GB	12.0" FHD+	MT	Pen Pro	128GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001NUS	m7-6Y75	vPro	Intel HD	8GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	02/16
20GG001SUS	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	512GB SSD	18260 ac+BT	None	None	None	None	WiGig	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	04/16
20GG001RUS	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	18260 ac+BT	None	None	None	None	WiGig	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	3-Depot	No	04/16
20GG0034US	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	512GB SSD	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	04/16
20GG0031US	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	EM7455	None	None	None	None	2.0/8.0	Thin, black	Finger	NFC	None	Win10 P64	1-Depot	No	04/16
20GG0032US	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	8260 ac+BT	None	None	None	None	None	2.0/8.0	Thin, black	Finger	None	None	Win10 P64	1-Depot	No	04/16
20GG0033US	m7-6Y75	vPro	Intel HD	16GB	12.0" FHD+	MT	Pen Pro	512GB SSD	8260 ac+BT	EM7455	None	None	None	None	2.0/8.0	Thin, black	Finger	NFC	None	Win10 P64	1-Depot	No	04/16

Processor

6th Generation Intel® Core™ M Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	vPro
m3-6Y30	2	4	0.90 GHz	2.20 GHz	4MB	LPDDR3-1866	Intel HD Graphics 515	No
m5-6Y54	2	4	1.10 GHz	2.70 GHz	4MB			No
m5-6Y57	2	4	1.10 GHz	2.80 GHz	4MB			Yes
m7-6Y75	2	4	1.20 GHz	3.10 GHz	4MB			Yes

Graphics	Intel HD Graphics 515 in processor
Chipset	Intel SoC (System on Chip) platform
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3, mobile DDR / soldered to systemboard
Display	12.0" (304.8mm) FHD+ (2160x1440), glare, LED backlight, IPS
Multi-touch	Capacitive touch panel, supports ten-finger gesture
Pen	*Optional:* ThinkPad Pen Pro, active pen for multi-touch display
Kick stand	Opening angle up to 90 degrees
Storage	*Some:* M.2 SSD / SATA 6.0Gb/s *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Storage extension	One microSD card slot, supports up to 64GB
Ethernet	None
WLAN	*One of the following, configurable by model (WiGig is mutually exclusive with IR camera):* • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card • WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter
WWAN	*One of the following, configurable by model:* • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)
SIM card	Nano-SIM, optional Lenovo Connect (WE) SIM card
Dimensions	*Tablet only:* 11.48" x 8.25" x 0.34"; 291.5mm x 209.5mm x 8.75mm
Weight	*Tablet only:* from 1.69 lb, 767g;
Case color	Black
Case material	Magnesium + PPS Hybrid injection
Smart Card Read	*Optional:* NFC-compatible smart card reader via NFC
Media reader	One microSD card slot (micro SD/SDXC/SDHC), supports up to 64GB

Ports	One standard USB 3.0, one USB Type-C, one Mini DisplayPort, headphone/microphone combo jack, one Pogo keyboard connector, one cartrige connector for optional modules, one nano-SIM slot
WiGig dock	*Optional:* WiGig dock, mutually exclusive with IR camera
Adapter *(optional)*	*mDP-HDMI:* Lenovo Mini DisplayPort to HDMI Monitor Cable *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable *USB-RJ45:* USB 3.0 to RJ45 adapter *USB-C-VGA:* USB-C to VGA plus power adapter *USB-C-HDMI:* USB-C to HDMI plus power adapter
Camera	*Front camera:* 2.0-megapixel, fixed focus *Rear camera:* 8.0-megapixel, auto focus, flash LED
Optional Cameras	*3D camera:* RealSense R200 3D camera on 3D Imaging module *IR camera:* infra-red (IR) camera, mutually exclusive WiGig and NFC
Audio support	Realtek® ALC3268 codec / stereo speakers, 0.5 watt x 2 / three microphones, combo audio/microphone jack
Pogo Keyboard	Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, LED backlit
Keyboard color	Black, red, and silver
Security	Kensington lock slot
Security chip	*TPM:* TPM2.0 and TPM1.2
vPro *(optional)*	Intel vPro Technology
Fingerprint reader	*Optional:* Touch style Fingerprint reader
NFC	*Optional:* Near Field Communication, mutually exclusive IR camera
Battery - type	Lithium polymer, 37Whr
Battery - life	up to 10 hr (local video playback)
AC adapter	45-watt USB Type-C adapter
Modules	*base:* Dummy base cartridge *Pro:* Productivity module,USB3.0 x 1, HDMI, OneLink+, 5 hrs battery (24Whr) *Pico:* Presenter module, Pico projector, HDMI and 10Whr battery for presenter *3D:* 3D Imaging module, USB3.0 x 1, RealSense 3D camera and HDMI
Preload	*Some:* Windows 10 Pro 64 *Some:* Windows 10 Home 64
Limited warranty	1-year - depot repair service/ service upgrades available 3-year - depot repair service/ service upgrades available
Environment	EPEAT™ Gold, RoHS, GREENGUARD, Low Halogen

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Lenovo® ThinkPad X1 Yoga



Lenovo ThinkPad X1 Yoga





ThinkPad X1 Yoga Platform Specifications

Processor 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics Intel HD Graphics 520 in processor only,
supports external digital monitor via HDMI or Mini DisplayPort;
supports dual independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2160 (HDMI)@24Hz

Chipset Intel SoC (System on Chip) platform

Memory 16GB max / 1866MHz LPDDR3 / soldered to systemboard

Display
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio

Multi-touch Capacitive touch panel, supports 10-finger gesture

Hinge Yoga hinge, 360 degree

Convert-mode Laptop, tent, stand, and tablet

Pen *(optional)* ThinkPad Pen Pro, active pen for multi-touch display

Storage
Some: M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical None

Ethernet Gigabit Ethernet via optional Ethernet (RJ-45) adapter
(by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))

WLAN *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card Micro-SIM card slot, optional Lenovo Connect (WE) SIM card

Dimensions *WxDxH:* 13.11" x 9.02" x 0.66"; 333.0mm x 229.0mm x 16.8mm)

Weight From 3.00 lb (1.36kg)

Case color Black

Case materal Carbon-Fiber Hybrid

Smart card reader None

Media reader Micro SD, supports UHS-II SD card

Ports Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

WiGig dock *Optional:* WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera HD720p resolution, fixed focus

Audio support HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)* Intel vPro Technology

Fingerprint reader Touch style fingerprint reader on the keyboard bezel

NFC *(optional)* Near Field Communication

Battery type Li-Polymer 4-cell (52Wh) or 4-cell (56Wh, OLED models only)

Battery life Up to 11.0 hr

AC adapter 45W or 65W AC adapter

Light sensor Ambient Light Sensor

G-sensor 3D accelerometer and 3D magnetometer

Compass 3D compass

Gyroscope 3D gyrometer

Preload Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64
- Lenovo Solution Center
- Lenovo WRITEit
- Lenovo Companion
- Lenovo Settings
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test MIL-STD-810G military certification

Environment EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

ThinkPad X1 Yoga 20FQ - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Adapter	Camera	Key-board	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FQ001WUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ001VUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ000SUS	i5-6200U	No	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	1-depot	No	01/16
20FQ000RUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	1-depot	No	01/16
20FQ000QUS	i7-6500U	No	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	1-depot	No	01/16
20FQ0036US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ0038US	i7-6600U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ0033US	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ0039US	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ0037US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ002YUS	i7-6600U	vPro	HD 520	16GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16
20FQ0032US	i7-6600U	vPro	HD 520	16GB	14.0" WQHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad X1 Yoga Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort; supports dual independent displays;

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1866MHz LPDDR3 / soldered to systemboard

Display
- *Some:* 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio
- *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.11" x 9.02" x 0.66"; 333.0mm x 229.0mm x 16.8mm)

Weight — From 3.00 lb (1.36kg)

Case color — Black

Case materal — Carbon-Fiber Hybrid

Smart card reader — None

Media reader — Micro SD, supports UHS-II SD card

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

WiGig dock — *Optional:* WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable; *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable; *RJ45:* ThinkPad OneLink+ to RJ45 adapter; *VGA/RJ45:* ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

NFC *(optional)* — Near Field Communication

Battery type — Li-Polymer 4-cell (52Wh) or 4-cell (56Wh, OLED models only)

Battery life — Up to 11.0 hr

AC adapter — 45W or 65W AC adapter

Light sensor — Ambient Light Sensor

G-sensor — 3D accelerometer and 3D magnetometer

Compass — 3D compass

Gyroscope — 3D gyrometer

Preload — Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64. *Some:* Windows 10 Pro 64. *Some:* Windows 10 Home 64

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad X1 Yoga 20FQ - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Adapter	Camera	Key-board	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FQ003JUS	i5-6300U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003SUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003VUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003WUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003LUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003UUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003MUS	i7-6600U	vPro	HD 520	16GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003RUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003HUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	240GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003PUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	180GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003TUS	i7-6600U	vPro	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003NUS	i5-6200U	No	HD 520	4GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003QUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ003KUS	i5-6300U	vPro	HD 520	4GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	02/16

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort;

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1866MHz LPDDR3 / soldered to systemboard

Display — *Some:* 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s, *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.11" x 9.02" x 0.66"; 333.0mm x 229.0mm x 16.8mm)

Weight — From 3.00 lb (1.36kg)

Case color — Black

Case materal — Carbon-Fiber Hybrid

Smart card reader — None

Media reader — Micro SD, supports UHS-II SD card

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

WiGig dock — *Optional:* WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable; *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable; *RJ45:* ThinkPad OneLink+ to RJ45 adapter; *VGA/RJ45:* ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

NFC *(optional)* — Near Field Communication

Battery type — Li-Polymer 4-cell (52Wh) or 4-cell (56Wh, OLED models only)

Battery life — Up to 11.0 hr

AC adapter — 45W or 65W AC adapter

Preload — Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64; *Some:* Windows 10 Pro 64; *Some:* Windows 10 Home 64

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad X1 Yoga 20FQ - TopSeller - III

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Adapter	Camera	Key-board	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FQ004JUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004CUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004BUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	240GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004AUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004GUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004HUS	i7-6600U	vPro	HD 520	16GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004KUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004FUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ0010US	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004DUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ004EUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ0048US	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ0049US	i7-6500U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16
20FQ000YUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (52wh)	65W	Win10 P64	3-depot	No	02/16

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1866MHz LPDDR3 / soldered to systemboard

Display — *Some:* 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s, *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.11" x 9.02" x 0.66"; 333.0mm x 229.0mm x 16.8mm)

Weight — From 3.00 lb (1.36kg)

Case color — Black

Case materal — Carbon-Fiber Hybrid

Smart card reader — None

Media reader — Micro SD, supports UHS-II SD card

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

WiGig dock — *Optional:* WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable; *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable; *RJ45:* ThinkPad OneLink+ to RJ45 adapter; *VGA/RJ45:* ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

NFC *(optional)* — Near Field Communication

Battery type — Li-Polymer 4-cell (52Wh) or 4-cell (56Wh, OLED models only)

Battery life — Up to 11.0 hr

AC adapter — 45W or 65W AC adapter

Preload — Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64; *Some:* Windows 10 Pro 64; *Some:* Windows 10 Home 64

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad X1 Yoga 20FQ - TopSeller - IV

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Adapter	Camera	Key-board	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FQ0031US	i7-6600U	vPro	HD 520	16GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	18260 ac+BT	None	None	Black	WiGig	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	03/16
20FQ0030US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD PCIe NVMe	None	18260 ac+BT	None	None	Black	WiGig	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	03/16
20FQ0034US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	256GB SSD PCIe NVMe Opal2	None	18260 ac+BT	None	None	Black	WiGig	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	03/16
20FQ0035US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	512GB SSD	None	18260 ac+BT	None	None	Black	WiGig	720p	Backlit	TPM	Finger	None	4 (52wh)	65W	Win10 P64	3-depot	No	03/16

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1866MHz LPDDR3 / soldered to systemboard

Display — *Some:* 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS,
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage — *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card
- WiGig™+11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model (mutually exclusive with WiGig):*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.11" x 9.02" x 0.66"; 333.0mm x 229.0mm x 16.8mm)

Weight — From 3.00 lb (1.36kg)

Case color — Black

Case materal — Carbon-Fiber Hybrid

Smart card reader — None

Media reader — Micro SD, supports UHS-II SD card

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

WiGig dock — *Optional:* WiGig dock, mutually exclusive with WWAN

Adapter *(optional)* — *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style fingerprint reader on the keyboard bezel

NFC *(optional)* — Near Field Communication

Battery type — Li-Polymer 4-cell (52Wh) or 4-cell (56Wh, OLED models only)

Battery life — Up to 11.0 hr

AC adapter — 45W or 65W AC adapter

Preload — Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad Yoga 11e



Lenovo ThinkPad Yoga 11e



Lenovo ThinkPad Yoga 11e



Lenovo ThinkPad Yoga 11e



Lenovo ThinkPad Yoga 11e

ThinkPad Yoga 11e 20D9 (TopSeller)

Type-model	Processor	Memory	Graphics	Widescreen display	Multi-touch	Camera	Top color	Storage	M.2 Card WLAN	M.2 Card WWAN/ SSD	SIM card	Finger print reader	battery cells	Power Adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20D9000RUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 a/b/g/n	None	None	None	4	45W	Win8.1 64	1-Depot	No	06/14
20D9000XUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	320G 7200	7260 a/b/g/n	None	None	None	4	45W	Win8.1 64	1-Depot	No	06/14
20D9000UUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 a/b/g/n	None	None	None	4	45W	Win8.1 64	1-Depot	No	06/14
20D9000WUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 a/b/g/n	None	None	None	4	45W	Win8.1 P64	1-Depot	No	06/14
20D9000VUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	320G 7200	7260 a/b/g/n	None	None	None	4	45W	Win8.1 P64	1-Depot	No	06/14
20D9000QUS	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 a/b/g/n	None	None	None	4	45W	Win8.1 P64	1-Depot	No	06/14
20D9001AUS	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 ac	None	None	None	4	45W	Win8.1 P64	1-Depot	No	12/14
20D90019US	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 ac	None	None	None	4	45W	Win8.1 P64	1-Depot	No	12/14
20D90018US	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	320G 7200	7260 ac	None	None	None	4	45W	Win8.1 P64	1-Depot	No	12/14
20D9001FUS	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 ac	None	None	None	4	45W	Win8.1 64	1-Depot	No	02/15
20D9001GUS	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 ac	None	None	None	4	45W	Win8.1 64	1-Depot	No	02/15
20D9001JUS	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	320G 7200	7260 ac	None	None	None	4	45W	Win8.1 64	1-Depot	No	02/15

Processor — Intel® Celeron® processor N2930 or N2940

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
N2930	4	4	1.83 GHz	2.16 GHz	2MB	DDR3L-1333	Intel HD graphics	No
N2940	4	4	1.83 GHz	2.25 GHz	2MB	DDR3L-1333	Intel HD graphics	No

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors w/ lower memory controller

Storage — *Some:* SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high,
Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Widescreen display — 11.6" (295mm) HD (1366x768) TFT color, LED backlight,
270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

MultiTouch — Yes, support 10 fingers

Hinge — Yoga hinge, 360 degree

Camera *(optional)* — HD720p resolution, low light sensitive

Graphics — Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Dimensions — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.90" (300mm x 216mm x 22.9mm)

Weight — From 3.5 lb (1.59kg)

Case color — *Display cover:* Graphite black or silver
Bottom: Graphite black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic;
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery - type — Integrated Lithium Ion 4-cell (35Wh)

Battery - life

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	-	9.0 hr
MobileMark 2012	-	6.5 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart Card Read — None

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, ethernet, combo audio/mic jack

Control buttons — Power button, volume control button

WLAN — *TP 11b/g/n:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 Card
7260 a/b/g/n: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 Card
7260 ac: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card

WWAN — None

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

NFC — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro & iAMT — None

Fingerprint reader — None

Limited warranty — 1-year - depot repair service / service upgrades available
For Lenovo service upgrade options, please go to P_C-AQP sheet

Preload — *Some:* Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support - Metro
- Lenovo QuickCast - Metro
- Lenovo Companion - Metro
- ThinkVantage System Update
- Lenovo Reach
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Environment — EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

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ThinkPad Yoga 11e 20D9 (TopSeller) - Windows 10

Type-model	Processor	Memory	Graphics	Widescreen display	Multi-touch	Camera	Top color	Storage	M.2 Card WLAN	M.2 Card WWAN/ SSD	SIM card	Finger print reader	battery cells	Power Adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20D90027US	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 ac	None	None	None	4	45W	Win10 P64	1-Depot	No	09/15
20D90028US	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 ac	None	None	None	4	45W	Win10 P64	1-Depot	No	09/15
20D90026US	N2940	8GB	Intel HD	11.6" HD	*Multi*	720p	Black	128G SSD	7260 ac	None	None	None	4	45W	Win10 P64	1-Depot	No	09/15
20D90029US	N2940	8GB	Intel HD	11.6" HD	*Multi*	720p	Black	64G SSD	7260 ac	None	None	None	4	45W	Win10 P64	1-Depot	No	09/15
20D90025US	N2940	8GB	Intel HD	11.6" HD	*Multi*	720p	Black	500G 7200	7260 ac	None	None	None	4	45W	Win10 P64	1-Depot	No	09/15

Processor — Intel® Celeron® processor N2930 or N2940

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
N2930	4	4	1.83 GHz	2.16 GHz	2MB	DDR3L-1333	Intel HD graphics	No
N2940	4	4	1.83 GHz	2.25 GHz	2MB	DDR3L-1333	Intel HD graphics	No

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors w/ lower memory controller

Storage — *Some:* SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high,
Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Widescreen display — 11.6" (295mm) HD (1366x768) TFT color, LED backlight,
270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

MultiTouch — Yes, support 10 fingers

Hinge — Yoga hinge, 360 degree

Camera *(optional)* — HD720p resolution, low light sensitive

Graphics — Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Dimensions — *11.6W" (WxDxH):* 11.81" x 8.50" x 0.90" (300mm x 216mm x 22.9mm)

Weight — From 3.5 lb (1.59kg)

Case color — *Display cover:* Graphite black or silver
Bottom: Graphite black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic;
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Battery - type — Integrated Lithium Ion 4-cell (35Wh)

Battery - life

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	-	9.0 hr
MobileMark 2012	-	6.5 hr

AC adapter — 45-watt AC adapter

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Buttonless touchpad below keyboard, multi-touch

ThinkLight™ — None

Chipset — Intel SoC (System on Chip) platform

Smart Card Read — None

Multicard Reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, ethernet, combo audio/mic jack

Control buttons — Power button, volume control button

WLAN — *TP 11b/g/n:* ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 Card
7260 a/b/g/n: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 Card
7260 ac: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card

WWAN — None

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

NFC — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro & iAMT — None

Fingerprint reader — None

Limited warranty — 1-year - depot repair service / service upgrades available
For Lenovo service upgrade options, please go to P_C-AQP sheet

Preload — *Some:* Windows 10 Pro 64
Some: Windows 10 Home 64

Environment — EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

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Lenovo® ThinkPad Yoga 11e Chromebook



Lenovo ThinkPad Yoga 11e Chromebook



Lenovo ThinkPad Yoga 11e Chromebook

ThinkPad Yoga 11e Chromebook 20DU (TopSeller)

Type-model	Processor	Memory	Graphics	Widescreen display	Multi-touch	Camera	Top color	Storage	M.2 Card WLAN	M.2 Card WWAN/ SSD	SIM card	Finger print reader	battery cells	Power Adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DU0008US	N2930	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	16GB eMMC	7260 ac	None	None	None	4	45W	Chrome	1-Depot	No	06/14
20DU000AUS	N2940	4GB	Intel HD	11.6" HD	*Multi*	720p	Black	16GB eMMC	7260 ac	None	None	None	4	45W	Chrome	1-Depot	No	12/14
20DU000EUS	N2940	2GB	Intel HD	11.6" HD	*Multi*	720p	Black	16GB eMMC	7260 ac	None	None	None	4	45W	Chrome	1-Depot	No	04/15

Processor	Intel® Celeron® processor N2930 or N2940

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
N2930	4	4	1.83 GHz	2.16 GHz	2MB	DDR3L-1333	Intel HD graphics	No
N2940	4	4	1.83 GHz	2.25 GHz	2MB	DDR3L-1333	Intel HD graphics	No

Memory	2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets * System automatically clocks down for processors w/ lower memory controller
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board
Widescreen display	11.6" (295mm) HD (1366x768) TFT color, LED backlight, 270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS
MultiTouch	Yes, support 10 fingers
Hinge	Yoga hinge, 360 degree
Camera	HD720p resolution, low light sensitive
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display; *Max resolution:* 1920x1080 (HDMI)@60Hz
Dimensions	*11.6W" (WxDxH):* 11.81" x 8.50" x 0.90" (300mm x 216mm x 22.9mm)
Weight	From 3.31 lb (1.50kg)
Case color	*Display cover:* Graphite black or silver *Bottom:* Graphite black
Case material	*Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic; *Bottom:* PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Integrated Lithium Ion 4-cell (35Wh)
Battery - life	Up to 8 hours
AC adapter	45-watt AC adapter

Audio support	HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack
Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Touchpad	Buttonless touchpad below keyboard, multi-touch
ThinkLight™	None
Chipset	Intel SoC (System on Chip) platform
Smart Card Read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 2.0, HDMI, combo audio/mic jack
Control buttons	Power button, volume control button
WLAN	*TP 11a/b/g/n:* ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 Card *7260 ac:* Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card
WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	None
NFC	None
Security	Security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
vPro & iAMT	None
Fingerprint reader	None
Limited warranty	1-year - depot repair service / service upgrades available *For Lenovo service upgrade options, please go to P-C-AQP sheet*
Preload	Google Chrome OS
Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

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Lenovo® ThinkPad Yoga 11e (2nd Gen)



Lenovo ThinkPad Yoga 11e (2nd Gen)



Lenovo ThinkPad Yoga 11e (2nd Gen)



Lenovo ThinkPad Yoga 11e (2nd Gen)



Lenovo ThinkPad Yoga 11e (2nd Gen)

ThinkPad Yoga 11e (2nd Gen) Platform Specifications

Processor

Intel® Core™ M processor M-5Y10c

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10c	2	4	0.80 GHz	2.00 GHz	4MB	DDR3L-1600	Intel HD graphics	No

Graphics

Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

8GB max / PC3-12800 1600MHz DDR3L, non-parity, soldered to systemboard

Display

11.6" (295mm) HD (1366x768) TFT color, LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

MultiTouch

Yes, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Wacom® Active pen, batteries required

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high,
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

TP 11b/g/n: ThinkPad 11b/g/n, 1x1, Wi-Fi + BT, M.2 Card
7265 ac: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 Card

WWAN

None

Smart Card Read

None

Dimensions

11.6W" (WxDxH): 11.80" x 8.50" x 0.90" (300mm x 216mm x 25.3mm)

Weight

From 3.5 lb (1.59kg)

Case color

Display cover: Graphite black or silver
Bottom: Graphite black

Case material

Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

One USB 3.0, one powered USB 2.0, HDMI, ethernet, combo audio/mic jack

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive

Audio support

HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / single digital microphone, combo audio/mic jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad

Two buttons click pad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader

None

Battery - type

Integrated Li-Polymer 4-cell (35Wh)

Max battery life

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	-	-
MobileMark 2012	-	8.1 hr

AC adapter

45-watt AC adapter

Preload

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo Support - Metro
- Lenovo Companion - Metro
- ThinkVantage System Update
- Lenovo SHAREit
- Lenovo Reach
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64

- Lenovo Solution Center
- Lenovo Settings
- Lenovo Companion
- ThinkVantage System Update
- Lenovo SHAREit
- Lenovo REACHit
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty

1-year - depot repair service / service upgrades available

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

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(YMR15W-1) September 2015

ThinkPad Yoga 11e (2nd Gen) 20E5 (TopSeller)

Type-model	Processor	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	TPM	Finger print reader	Battery cells (wh)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann Date (m/y)
20E5000CUS	5Y10c	Intel HD	4GB	11.6" HD	MT	None	500G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win8.1 P64	1-Depot	No	04/15
20E5000FUS	5Y10c	Intel HD	4GB	11.6" HD	MT	None	320G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win8.1 P64	1-Depot	No	04/15
20E5000JUS	5Y10c	Intel HD	4GB	11.6" HD	MT	Active	192G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win8.1 P64	1-Depot	No	05/15
20E5000DUS	5Y10c	Intel HD	4GB	11.6" HD	MT	None	192G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win8.1 P64	1-Depot	No	05/15
20E5000GUS	5Y10c	Intel HD	4GB	11.6" HD	MT	Active	120G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win8.1 P64	1-Depot	No	06/15

Processor

Intel® Core™ M processor M-5Y10c

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10c	2	4	0.80 GHz	2.00 GHz	4MB	DDR3L-1600	Intel HD graphics	No

Graphics
Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset
Intel SoC (System on Chip) platform

Memory
8GB max / PC3-12800 1600MHz DDR3L, non-parity, soldered to systemboard

Display
11.6" (295mm) HD (1366x768) TFT color, LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

MultiTouch
Yes, support 10 fingers

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Pen
Some: Wacom® Active pen, batteries required

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high,
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical
None

Ethernet
Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
TP 11b/g/n: ThinkPad 11b/g/n, 1x1, Wi-Fi + BT, M.2 Card
7265 ac: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 Card

WWAN
None

Smart Card Read
None

Dimensions
11.6W" (WxDxH): 11.80" x 8.50" x 0.90" (300mm x 216mm x 25.3mm)

Weight
From 3.5 lb (1.59kg)

Case color
Display cover: Graphite black or silver
Bottom: Graphite black

Case material
Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
One USB 3.0, one powered USB 2.0, HDMI, ethernet, combo audio/mic jack

Control buttons
Power button, volume control button

Camera
HD720p resolution, low light sensitive

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / single digital microphone, combo audio/mic jack

Keyboard
ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad
Two buttons click pad below keyboard, multi-touch

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader
None

Battery - type
Integrated Li-Polymer 4-cell (35Wh)

Max battery life

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	-	-
MobileMark 2012	-	8.1 hr

AC adapter
45-watt AC adapter

Preload
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support - Metro
- Lenovo Companion - Metro
- ThinkVantage System Update
- Lenovo SHAREit
- Lenovo Reach
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Rara Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

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ThinkPad Yoga 11e (2nd Gen) 20E5 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	TPM	Finger print reader	Battery cells (wh)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann Date (m/y)
20E5001AUS	5Y10c	Intel HD	8GB	11.6" HD	MT	None	320G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50019US	5Y10c	Intel HD	8GB	11.6" HD	MT	None	500G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50017US	5Y10c	Intel HD	8GB	11.6" HD	MT	None	64G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50013US	5Y10c	Intel HD	4GB	11.6" HD	MT	None	320G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50018US	5Y10c	Intel HD	8GB	11.6" HD	MT	None	128G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50014US	5Y10c	Intel HD	4GB	11.6" HD	MT	None	500G 7200	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50016US	5Y10c	Intel HD	4GB	11.6" HD	MT	None	64G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15
20E50015US	5Y10c	Intel HD	4GB	11.6" HD	MT	None	128G SSD	7265 ac+BT4.0	None	None	Black	720p	TPM	None	4(35wh)	45W	Win10 P64	1-Depot	No	09/15

Processor — Intel® Core™ M processor M-5Y10c

Processor Number	# of Cores	# of Threads	Clock Speed	Burst Frequency	Cache	Memory Types	Processor Graphics	Intel vPro Technology
5Y10c	2	4	0.80 GHz	2.00 GHz	4MB	DDR3L-1600	Intel HD graphics	No

Graphics — Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset — Intel SoC (System on Chip) platform

Memory — 8GB max / PC3-12800 1600MHz DDR3L, non-parity, soldered to systemboard

Display — 11.6" (295mm) HD (1366x768) TFT color, LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

MultiTouch — Yes, support 10 fingers

Hinge — Yoga hinge, 360 degree

Convertible mode — Laptop, tent, stand and tablet

Pen — *Some:* Wacom® Active pen, batteries required

Storage — *Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high,
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

Optical — None

Ethernet — Realtek RTL8111GUS-CG Gigabit Network Connection

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN — *TP 11b/g/n:* ThinkPad 11b/g/n, 1x1, Wi-Fi + BT, M.2 Card
7265 ac: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 Card

WWAN — None

Smart Card Read — None

Dimensions — *11.6W" (WxDxH):* 11.80" x 8.50" x 0.90" (300mm x 216mm x 25.3mm)

Weight — From 3.5 lb (1.59kg)

Case color — *Display cover:* Graphite black or silver
Bottom: Graphite black

Case material — *Display cover:* PolyCarbonate/Glass-Fiber Reinforced Plastic
Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — One USB 3.0, one powered USB 2.0, HDMI, ethernet, combo audio/mic jack

Control buttons — Power button, volume control button

Camera — HD720p resolution, low light sensitive

Audio support — HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / single digital microphone, combo audio/mic jack

Keyboard — ThinkPad Windows keyboard, 6-row, multimedia Fn keys

Touchpad — Two buttons click pad below keyboard, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader — None

Battery - type — Integrated Li-Polymer 4-cell (35Wh)

Max battery life

Models	*Windows 7*	*Windows 8*
MobileMark® 2007	-	-
MobileMark 2012	-	8.1 hr

AC adapter — 45-watt AC adapter

Preload — *Some:* Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty — 1-year - depot repair service / service upgrades available

Environment — EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

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Lenovo® ThinkPad Yoga 11e

ThinkPad Yoga 11e (3rd Gen) Platform Specifications

Processor

Intel® Celeron® processor, Intel Pentium® Processor, or
6th Generation Intel Core™ i3 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics
Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510
i3-6100U			2.3 GHz	-	3MB		Intel HD graphics 520

Graphics

Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 1920X1080 (HDMI)@30Hz

Chipset

Intel SoC (System on Chip) platform

Memory

2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket

Display

11.6" (295mm) HD (1366x768), glare, LED backlight, IPS
250 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch

Yes, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Active pen, batteries required

Storage

M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

WLAN[4]

One of the following, configurable by model:

- 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions[3]

WxDxH: 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm

Weight[2]

from 3.5 lb (1.59kg)

Case color

Display cover: Graphite Black or Silver; *Bottom:* Graphite Black

Case material

Display cover: PC+40%GF+TPU; *Bottom:* PCC

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 /
monaural digital microphone, combo audio/microphone jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™

Buttonless touchpad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro

None

Fingerprint reader

None

Battery

Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10]

MobileMark® 2014: 11.53 hr

AC adapter

45-watt AC adapter

Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded;
  purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

ThinkPad Yoga 11e (3rd Gen) 20GA (TopSeller)

Model	Processor	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	Color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GA000KUS	Cel N3150	Intel HD	4GBx1	11.6" HD	MT	None	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16
20GA000MUS	i3-6100U	HD 520	8GBx1	11.6" HD	MT	None	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16
20GA000NUS	i3-6100U	HD 520	8GBx1	11.6" HD	MT	None	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16
20GA000QUS	i3-6100U	HD 520	8GBx1	11.6" HD	MT	None	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16
20GA000LUS	Cel N3150	Intel HD	8GBx1	11.6" HD	MT	None	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16
20GA000YUS	i3-6100U	HD 520	4GBx1	11.6" HD	MT	None	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	03/16

Processor	Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics
Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510
i3-6100U			2.3 GHz	-	3MB		Intel HD graphics 520

Graphics	Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz
Chipset	Intel SoC (System on Chip) platform
Memory	2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket
Display	11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 250 nits, 16:9 aspect ratio, 800:1 contrast ratio
MultiTouch	Yes, support 10 fingers
Hinge	Yoga hinge, 360 degree
Convertible mode	Laptop, tent, stand and tablet
Pen	*Some:* Active pen, batteries required
Storage	M.2 Solid State Drive (SSD), SATA 6.0Gb/s
Optical	None
Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection
WLAN[4]	*One of the following, configurable by model:* • 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WWAN	None
Dimensions[3]	*WxDxH:* 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm
Weight[2]	from 3.5 lb (1.59kg)
Case color	*Display cover:* Graphite Black or Silver; *Bottom:* Graphite Black
Case material	*Display cover:* PC+40%GF+TPU; *Bottom:* PCC

Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, HDMI, Ethernet (RJ-45)
Control buttons	Power button, volume control button
Camera	HD720p resolution, low light sensitive, fixed focus
Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys
UltraNav™	Buttonless touchpad below keyboard, multi-touch
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
vPro	None
Fingerprint reader	None
Battery	Integrated Lithium Polymer 3-cell *(42Wh)*
Max battery life[10]	*MobileMark® 2014:* 11.53 hr
AC adapter	45-watt AC adapter
Preload	*Some:* Windows 10 Home 64 *Some:* Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)
Limited warranty[12]	*One of the following, configurable by model:* • 1-year depot repair service • 3-year/1-yr battery depot repair service (US only)
Mil-Spec test	MIL-STD-810G military certification
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant







Lenovo® ThinkPad Yoga 11e
Chromebook

ThinkPad Yoga 11e (3rd Gen) Chromebook Platform Specifications

Product Specifications Reference (PSREF)

Processor — Intel® Celeron® processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	LPDDR3-1600	Intel HD graphics

Graphics — Intel HD Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz

Chipset — Intel SoC (System on Chip) platform

Memory — 2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets

Display — 11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 200 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch — Yes, support 10 fingers

Hinge — Yoga hinge, 360 degree

Convertible mode — Laptop, tent, stand and tablet

Pen — None

Storage — 16GB eMMC (embedded Multi Media Card) flash memory on board

Optical — None

Ethernet — None

WLAN[4] — 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

Dimensions[3] — *WxDxH:* 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm

Weight[2] — from 3.3 lb (1.50kg)

Case color — *Display cover:* Graphite Black or Silver; *Bottom:* Graphite Black

Case material — *Display cover:* PC+40%GF+TPU; *Bottom:* PCC

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0 (one Always On), HDMI

Control buttons — Power button, volume control button

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack

Keyboard — ThinkPad Chrome keyboard, 6-row, multimedia Fn keys

UltraNav™ — Buttonless touchpad below keyboard, multi-touch

Security — Security keyhole

Security chip — Trusted Platform Module, TCG 1.2-compliant

vPro — None

Fingerprint reader — None

Battery — Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10] — Up to 12 hr

AC adapter — 45-watt AC adapter

Preload — Google Chrome OS

Limited warranty[12] — 1-year depot repair service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

ThinkPad Yoga 11e (3rd Gen) Chromebook 20GE (TopSeller)

Model	Processor	Graphics	Memory	Display	Multi-touch	Pen	Storage	WLAN & Bluetooth	Color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GE0002US	Cel N3150	Intel HD	4GBx1	11.6" HD	MT	None	16GB	7265 ac+BT	Black	720p	None	3	45W	Chrome	1-depot	No	03/16

Processor	Intel® Celeron® processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	LPDDR3-1600	Intel HD graphics

Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz
Chipset	Intel SoC (System on Chip) platform
Memory	2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets
Display	11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 200 nits, 16:9 aspect ratio, 800:1 contrast ratio
MultiTouch	Yes, support 10 fingers
Hinge	Yoga hinge, 360 degree
Convertible mode	Laptop, tent, stand and tablet
Pen	None
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board
Optical	None
Ethernet	None
WLAN[4]	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WWAN	None

Dimensions[3]	*WxDxH:* 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm
Weight[2]	from 3.3 lb (1.50kg)
Case color	*Display cover:* Graphite Black or Silver; *Bottom:* Graphite Black
Case material	*Display cover:* PC+40%GF+TPU; *Bottom:* PCC
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0 (one Always On), HDMI
Control buttons	Power button, volume control button
Camera	HD720p resolution, low light sensitive, fixed focus
Audio support	Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
UltraNav™	Buttonless touchpad below keyboard, multi-touch
Security	Security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
vPro	None
Fingerprint reader	None
Battery	Integrated Lithium Polymer 3-cell *(42Wh)*
Max battery life[10]	Up to 12 hr
AC adapter	45-watt AC adapter
Preload	Google Chrome OS
Limited warranty[12]	1-year depot repair service
Mil-Spec test	MIL-STD-810G military certification
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant



Lenovo® ThinkPad Yoga 12



Lenovo ThinkPad Yoga 12





Lenovo ThinkPad Yoga 12



ThinkPad Yoga 12 Platform Specifications

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5005U	2	4	2.0 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i5-5300U	2	4	2.3 GHz	2.9 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500
i7-5600U	2	4	2.6 GHz	3.2 GHz	4MB		HD5500

Graphics

Intel HD Graphics 5500 in processor only,
digital monitor support via mini HDMI™; supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

8GB max / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets

Display

Some: 12.5" (317.5mm) HD (1366x768) color, smudgeless, LED backlight, 300 nits, 16:9 aspect ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080) color, smudgeless, LED backlight, 400 nits, 16:9 aspect ratio, IPS

Multi-touch

Supports 10-finger gesture

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Wacom® Active pen with glossy panel, batteries required
Some: Wacom® Digitizer pen with anti-glare panel, no batteries required

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet

None

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:

- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN

None

SIM card

None

Smart Card Read

None

ExpressCard

None

Dimensions

12.5" (WxDxH): 12.44" x 8.70" x 0.74" (316mm x 221mm x 19.4mm)

Weight

From 3.48 lb (1.58kg)

Case color

Graphite black or silver

Case Materal

Magnesium and aluminum + Polyphenylene sulfide (PPS)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), mini HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable

None

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX22752 codec, Dolby® Home Theater® v4 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard

6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro

Some: Intel vPro Technology

Fingerprint reader

None

NFC

None

Battery type

Li-Polymer 8-cell (47Wh)

Battery life

Up to 8.0 hr

AC adapter

45-watt AC adapter

Light sensor

Ambient Light Sensor

G-sensor/ eCompass

3D accelerometer and 3D magnetometer
3D compass

Gyroscope

3D gyrometer

Preload

Some: No operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit

Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery

Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty

1-year - depot repair service / service upgrades available
3-year - depot repair service / service upgrades available
3-year - onsite repair service / service upgrades available

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(STLA2-Spec) August 2015

ThinkPad Yoga 12 20DL - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DL0035US	i3-5005U	No	HD 5500	4GB	12.5" FHD	MT	Digitizer	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL003AUS	i7-5600U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0038US	i5-5300U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	180GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0032US	i5-5300U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL003BUS	i5-5200U	No	HD 5500	4GB	12.5" FHD	MT	Digitizer	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0037US	i5-5200U	No	HD 5500	4GB	12.5" HD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0039US	i5-5300U	vPro	HD 5500	8GB	12.5" HD	MT	None	1TB 5400	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0031US	i7-5500U	No	HD 5500	8GB	12.5" HD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15
20DL0036US	i3-5005U	No	HD 5500	4GB	12.5" HD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win8.1 P64	1-depot	No	02/15

- *For detailed platform specifications, please see ThinkPad Yoga 12 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5005U	2	4	2.0 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i5-5300U	2	4	2.3 GHz	2.9 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500
i7-5600U	2	4	2.6 GHz	3.2 GHz	4MB		HD5500

Graphics
Intel HD Graphics 5500 in processor only

Chipset
Intel SoC (System on Chip) platform

Memory
8GB max / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets

Display
Some: 12.5" (317.5mm) HD (1366x768) color, glossy, LED backlight, 300 nits, 16:9 aspect ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, IPS

Multi-touch
Supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Pen
Some: Wacom® Active pen with glossy panel, batteries required
Some: Wacom® Digitizer pen with anti-glare panel, no batteries required

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

Dimensions
12.5" (WxDxH): 12.44" x 8.70" x 0.74" (316mm x 221mm x 19.4mm)

Weight
From 3.48 lb (1.58kg)

Case color
Graphite black or silver

Case Materal
Magnesium and aluminum + Polyphenylene sulfide (PPS)

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), mini HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX22752 codec, Dolby® Home Theater® v4 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro
Some: Intel vPro Technology

Fingerprint reader
None

NFC
None

Battery type
Li-Polymer 8-cell (47Wh)

Battery life
Up to 8.0 hr

AC adapter
45-watt AC adapter

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available
3-year - depot repair service / service upgrades available
3-year - onsite repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad Yoga 12 20DL - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DL0075US	i7-5600U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DL0076US	i5-5200U	No	HD 5500	4GB	12.5" HD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DL0078US	i5-5300U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	180GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DL0077US	i3-5005U	No	HD 5500	4GB	12.5" HD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win10 P64	1-depot	No	07/15
20DL0079US	i5-5300U	vPro	HD 5500	8GB	12.5" FHD	MT	Digitizer	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Backlit	TPM	No	8 (47wh)	45W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad Yoga 12 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5005U	2	4	2.0 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i5-5300U	2	4	2.3 GHz	2.9 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500
i7-5600U	2	4	2.6 GHz	3.2 GHz	4MB		HD5500

Graphics
Intel HD Graphics 5500 in processor only

Chipset
Intel SoC (System on Chip) platform

Memory
8GB max / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets

Display
Some: 12.5" (317.5mm) HD (1366x768) color, glossy, LED backlight, 300 nits, 16:9 aspect ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, IPS

Multi-touch
Supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Pen
Some: Wacom® Active pen with glossy panel, batteries required
Some: Wacom® Digitizer pen with anti-glare panel, no batteries required

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

Dimensions
12.5" (WxDxH): 12.44" x 8.70" x 0.74" (316mm x 221mm x 19.4mm)

Weight
From 3.48 lb (1.58kg)

Case color
Graphite black or silver

Case Materal
Magnesium and aluminum + Polyphenylene sulfide (PPS)

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), mini HDMI, Lenovo OneLink connector, combo audio / microphone jack

Monitor cable
None

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX22752 codec, Dolby® Home Theater® v4 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro
Some: Intel vPro Technology

Fingerprint reader
None

NFC
None

Battery type
Li-Polymer 8-cell (47Wh)

Battery life
Up to 8.0 hr

AC adapter
45-watt AC adapter

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Some: Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available
3-year - depot repair service / service upgrades available
3-year - onsite repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad Yoga 15



Lenovo ThinkPad Yoga 15



Lenovo ThinkPad Yoga 15

ThinkPad Yoga 15 Platform Specifications

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics

Intel HD Graphics in processor only, or
Nvidia Geforce 840M Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080) color, glossy, LED backlight, 300 nits, 16:9 aspect ratio, IPS
Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, IPS

Multi-touch

Supports 10-finger gesture

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Active pen

Some: Wacom® Active pen, batteries required (WE only)

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical

None

M.2 SSD

Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet

None

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN

One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN *(optional)*

Some: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

SIM card

None

Smart Card Read

None

ExpressCard

None

Dimensions

FHD (WxDxH): 15.07" x 10.07" x 0.82" (383mm x 256mm x 21mm)

Weight

From 5.07 lb (2.30kg)

Case color

Graphite black or silver

Case Materal

Aluminum

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), one USB 2.0, HDMI, Lenovo OneLink connector
combo audio / microphone jack

Monitor cable

None

Camera

Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera

Audio support

HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v4 /
stereo JBL branded speakers, 1.5W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard

6-row, LED backlit, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™

None

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Enabled: Trusted Platform Module, TCG 1.2-compliant

vPro

None

Fingerprint reader

Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC

None

Battery type

Li-Polymer 4-cell (66Wh)

Battery life

Up to 8.0 hr

AC adapter

Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Light sensor

Ambient Light Sensor

G-sensor/ eCompass

3D accelerometer and 3D magnetometer
3D compass, 3D inclinometer

Gyroscope

3D gyrometer

Preload

Some: No operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- ThinkVantage System Update
- Microsoft® Office preloaded; purchase a product key to activate

Some: Windows 8.1 64-bit

Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery

Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty

1-year - depot repair service / service upgrades available

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(ASAH1-Spec) August 2015

ThinkPad Yoga 15 20DQ (Geforce) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DQ001KUS	i5-5200U	No	840M	4GBx2	15.6" FHD	MT	None	180GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win8.1 P64	1-depot	No	01/15
20DQ001JUS	i5-5200U	No	840M	4GBx1	15.6" FHD	MT	None	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win8.1 P64	1-depot	No	01/15
20DQ001LUS	i7-5500U	No	840M	4GBx2	15.6" FHD	MT	None	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win8.1 P64	1-depot	No	01/15
20DQ001MUS	i7-5500U	No	840M	4GBx2	15.6" FHD	MT	None	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	3D	Numpad	None	No	4 (66wh)	65W	Win8.1 P64	1-depot	No	05/15

- *For detailed platform specifications, please see ThinkPad Yoga 15 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
Nvidia Geforce 840M Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
15.6" (396mm) FHD (1920x1080) color, glossy, LED backlight,
300 nits, 16:9 aspect ratio, IPS

Multi-touch
Supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Active pen
Some: Wacom® Active pen, batteries required (WE only)

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN *(optional)*
Some: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

SIM card
None

Dimensions
FHD (WxDxH): 15.07" x 10.07" x 0.82" (383mm x 256mm x 21mm)

Weight
From 5.07 lb (2.30kg)

Case color
Graphite black or silver

Case Materal
Aluminum

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, HDMI, Lenovo OneLink connector
combo audio / microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v4 /
stereo JBL branded speakers, 1.5W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard
6-row, LED backlit, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Enabled: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Polymer 4-cell (66Wh)

Battery life
Up to 8.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: No operating system
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad Yoga 15 20DQ - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DQ0080US	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	MT	No	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Numpad	Enabled	No	4 (66wh)	45W	Win10 P64	1-depot	No	07/15
20DQ0082US	i7-5500U	No	HD 5500	4GBx2	15.6" FHD	MT	No	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	Enabled	No	4 (66wh)	45W	Win10 P64	1-depot	No	07/15
20DQ007YUS	i5-5200U	No	HD 5500	4GBx2	15.6" FHD	MT	No	180GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	Enabled	No	4 (66wh)	45W	Win10 P64	1-depot	No	07/15
20DQ0084US	i7-5500U	No	HD 5500	4GBx2	15.6" FHD	MT	No	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	3D	Numpad	Enabled	No	4 (66wh)	45W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad Yoga 15 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
Intel HD Graphics in processor only,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 300 nits,
16:9 aspect ratio, IPS

Multi-touch
Supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Active Pen
Some: Wacom® Active pen, batteries required (WE only)

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN *(optional)*
Some: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/
EDGE, GPS, M.2 Card

SIM card
None

Dimensions
FHD (WxDxH): 15.07" x 10.07" x 0.82" (383mm x 256mm x 21mm)

Weight
From 5.07 lb (2.30kg)

Case color
Graphite black or silver

Case Materal
Aluminum

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, HDMI, Lenovo OneLink connector
combo audio / microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v4 /
stereo JBL branded speakers, 1.5W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard
6-row, LED backlit, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Enabled: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Polymer 4-cell (66Wh)

Battery life
Up to 8.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: Windows® 7 Professional 64 *Some:* Windows 10 Pro 64
preinstalled through downgrade
rights in Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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ThinkPad Yoga 15 20DQ (Geforce) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Color	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DQ0083US	i7-5500U	No	840M	4GBx2	15.6" FHD	MT	No	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win10 P64	1-depot	No	07/15
20DQ0081US	i5-5200U	No	840M	4GBx2	15.6" FHD	MT	No	180GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win10 P64	1-depot	No	07/15
20DQ0085US	i7-5500U	No	840M	4GBx2	15.6" FHD	MT	No	256GB SSD OPAL2	None	7265 ac+BT4.0	None	None	Black	3D	Numpad	None	No	4 (66wh)	65W	Win10 P64	1-depot	No	07/15
20DQ007XUS	i5-5200U	No	840M	4GBx1	15.6" FHD	MT	No	500GB 7200	None	7265 ac+BT4.0	16GB	None	Black	720p	Numpad	None	No	4 (66wh)	65W	Win10 P64	1-depot	No	07/15

- *For detailed platform specifications, please see ThinkPad Yoga 15 Platform Specifications sheet*

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	HD5500
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500

Graphics
Nvidia Geforce 840M Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™ (supporting HDCP to output protected content)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable,
two 204-pin SO-DIMM sockets

Display
15.6" (396mm) FHD (1920x1080) color, glossy, LED backlight,
300 nits, 16:9 aspect ratio, IPS

Multi-touch
Supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convertible mode
Laptop, tent, stand and tablet

Active pen
Some: Wacom® Active pen, batteries required (WE only)

Storage
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable,
upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical
None

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 Card slot

Ethernet
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN
One of the following, configurable by model:
- Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

WWAN *(optional)*
Some: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/
EDGE, GPS, M.2 Card

SIM card
None

Dimensions
FHD (WxDxH): 15.07" x 10.07" x 0.82" (383mm x 256mm x 21mm)

Weight
From 5.07 lb (2.30kg)

Case color
Graphite black or silver

Case Materal
Aluminum

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0 (one Always On), one USB 2.0, HDMI, Lenovo OneLink connector
combo audio / microphone jack

Monitor cable
None

Camera
Some: HD720p resolution, fixed focus
Some: 3D camera, Intel RealSense™ 3D Camera

Audio support
HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v4 /
stereo JBL branded speakers, 1.5W x 2 / dual array microphone,
combo audio / microphone jack

Keyboard
6-row, LED backlit, spill-resistant, multimedia Fn keys, numeric keypad

UltraNav™
TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™
None

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Enabled: Trusted Platform Module, TCG 1.2-compliant

vPro
None

Fingerprint reader
Some: Fingerprint reader on the keyboard bezel, swipe sensor

NFC
None

Battery type
Li-Polymer 4-cell (66Wh)

Battery life
Up to 8.0 hr

AC adapter
Some: 45-watt AC adapter (Integrated Graphics)
Some: 65-watt AC adapter (Discrete Graphics)

Preload
Some: Windows® 7 Professional 64 *Some:* Windows 10 Pro 64
preinstalled through downgrade
rights in Windows 10 Pro 64

Limited warranty
1-year - depot repair service / service upgrades available

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad Yoga 260



Lenovo ThinkPad Yoga 260



Lenovo ThinkPad Yoga 260

ThinkPad Yoga 260 Platform Specifications

Processor 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics Intel HD Graphics 520 in processor only,
supports external digital monitor via HDMI, Mini DisplayPort;
supports dual independent display
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz
4096x2160 (HDMI)@24Hz

Chipset Intel SoC (System on Chip) platform
Memory 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display *Some:* 12.5" (317.5mm) HD (1366x768) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS
Multi-touch Supports 10-finger gesture
Hinge Yoga hinge, 360 degree
Convert-mode Laptop, tent, stand and tablet
Pen *Some:* ThinkPad Pen Pro, active pen for multi-touch display

Storage *Some:* M.2 SSD / SATA 6.0Gb/s
Some: M.2 SSD / PCIe NVMe 6.0Gb/s
Optical None
M.2 SSD None

Ethernet Gigabit Ethernet via optional Ethernet (RJ-45) adapter
(by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))

WLAN *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- *BCM:* Broadcom Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- *no vPro:* Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT, M.2 Card
- *vPro:* Intel Dual Band Wireless-AC 8260 with vPro, 2x2, Wi-Fi + BT, M.2 Card
- *WiGig:* WiGig™ +11AC+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, 1x1 WiGig, M.2 Card

Bluetooth™ Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* Wireless WAN, Sierra Wireless EM7455,
Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card

SIM card Micro-SIM card slot

Dimensions *12.5" (WxDxH):* 12.20" x 8.66" x 0.70" (309.9mm x 220mm x 17.8mm)
Weight From 2.90 lb (1.32kg)
Case color Midnight black or silver
Case Materal Carbon-Fiber Hybrid

Smart Card Reader *Some:* Smart Card Reader
ExpressCard None
Media reader Micro SD, supports UHS-I SD card
Ports Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack
Monitor cable None

Camera HD720p resolution, fixed focus
Audio support HD Audio, Conexant® CX11852 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard 6-row, LED backlit, spill-resistant, multimedia Fn keys
UltraNav™ TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
ThinkLight™ None

Security Power-on password, hard disk password, supervisor password, security keyhole
Security chip *TPM:* Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0
vPro *Some:* Intel vPro Technology
Fingerprint reader *Some:* Touch style fingerprint reader on the keyboard bezel
NFC *Some:* Near Field Communication

Battery type Li-Polymer 4-cell (44Wh)
Battery life Up to 10.0 hr
AC adapter *Some:* 45-watt AC adapter
Some: 65-watt AC adapter

Light sensor Ambient Light Sensor
G-sensor/ eCompass 3D accelerometer and 3D magnetometer
3D compass
Gyroscope 3D gyrometer

Preload

Some: Windows® 7 Professional 64
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Some: Windows 10 Pro 64
Some: Windows 10 Home 64
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- Microsoft Office preloaded; purchase a product key to activate

Limited warranty 1-year - depot repair service / service upgrades available
3-year - depot repair service / service upgrades available
3-year - onsite repair service / service upgrades available

Mil-Spec test MIL-STD-810G military certification

Environment EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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(STORM-Spec) November 2015

ThinkPad Yoga 260 20FD - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Smart card reader	Camera	Keyboard	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FD0000US	i5-6200U	No	HD 520	4GB	12.5" HD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	11/15
20FD0002US	i5-6200U	No	HD 520	4GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	11/15
20FD0003US	i3-6100U	No	HD 520	4GB	12.5" FHD	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	11/15
20FD0004US	i5-6200U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	11/15
20FD0001US	i3-6100U	No	HD 520	4GB	12.5" HD	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	11/15
20FD0029US	i7-6500U	No	HD 520	16GB	12.5" FHD	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002CUS	i7-6500U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002DUS	i5-6200U	No	HD 520	8GB	12.5" HD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002BUS	i5-6200U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	180GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002AUS	i5-6200U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002GUS	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	180GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002KUS	i7-6600U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002EUS	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002JUS	i5-6300U	vPro	HD 520	8GB	12.5" HD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002HUS	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20FD002FUS	i7-6600U	vPro	HD 520	16GB	12.5" FHD	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Black	None	720p	Backlit	TPM	Finger	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad Yoga 260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI, Mini DisplayPort

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
- *Some:* 12.5" (317.5mm) HD (1366x768) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS
- *Some:* 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS

Multi-touch — Supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand and tablet

Pen — *Some:* ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe 6.0Gb/s

Optical — None

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- *no vPro:* Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT, M.2 Card
- *vPro:* Intel Dual Band Wireless-AC 8260 with vPro, 2x2, Wi-Fi + BT, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Wireless WAN, Sierra Wireless EM7455 M.2 card

SIM card — Micro-SIM card slot

Dimensions — *12.5" (WxDxH):* 12.20" x 8.66" x 0.70" (309.9mm x 220mm x 17.8mm)

Weight — From 2.90 lb (1.32kg)

Case color — Midnight black or silver

Case Materal — Carbon-Fiber Hybrid

Smart Card Reader — *Some:* Smart Card Reader

Media reader — Micro SD, supports UHS-I SD card

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — *TPM:* Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro — *Some:* Intel vPro Technology

Fingerprint reader — *Some:* Touch style fingerprint reader on the keyboard bezel

NFC — *Some:* Near Field Communication

Battery type — Li-Polymer 4-cell (44Wh)

Battery life — Up to 10.0 hr

AC adapter
- *Some:* 45-watt AC adapter
- *Some:* 65-watt AC adapter

Light sensor — Ambient Light Sensor

G-sensor/ eCompass — 3D accelerometer and 3D magnetometer, 3D compass

Gyroscope — 3D gyrometer

Preload
- *Some:* Windows® 7 Professional 64
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- *Some:* Windows 10 Pro 64
- *Some:* Windows 10 Home 64

Limited warranty
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available
- 3-year - onsite repair service / service upgrades available

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad Yoga 260 20GS - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Smart card reader	Camera	Keyboard	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20GS0004US	i5-6200U	No	HD 520	4GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0000US	i5-6200U	No	HD 520	4GB	12.5" HD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0002US	i7-6500U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0003US	i7-6500U	No	HD 520	16GB	12.5" FHD	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0007US	i5-6200U	No	HD 520	8GB	12.5" HD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0001US	i3-6100U	No	HD 520	4GB	12.5" HD	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0006US	i3-6100U	No	HD 520	4GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0005US	i5-6200U	No	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS000AUS	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS000CUS	i7-6600U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0009US	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	180GB SSD Opal2	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS000BUS	i7-6600U	vPro	HD 520	16GB	12.5" FHD	MT	Pen Pro	512GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16
20GS0008US	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	None	720p	Backlit	TPM	None	None	4 (44wh)	45W	Win10 P64	1-depot	No	01/16

- *For detailed platform specifications, please see ThinkPad Yoga 260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI, Mini DisplayPort

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
- *Some:* 12.5" (317.5mm) HD (1366x768) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS
- *Some:* 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS

Multi-touch — Supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand and tablet

Pen — *Some:* ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe 6.0Gb/s

Optical — None

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- *no vPro:* Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT, M.2 Card
- *vPro:* Intel Dual Band Wireless-AC 8260 with vPro, 2x2, Wi-Fi + BT, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Wireless WAN, Sierra Wireless EM7455 M.2 card

SIM card — Micro-SIM card slot

Dimensions — *12.5" (WxDxH):* 12.20" x 8.66" x 0.70" (309.9mm x 220mm x 17.8mm)

Weight — From 2.90 lb (1.32kg)

Case color — Midnight black or silver

Case Materal — Carbon-Fiber Hybrid

Smart Card Reader — *Some:* Smart Card Reader

Media reader — Micro SD, supports UHS-I SD card

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — *TPM:* Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro — *Some:* Intel vPro Technology

Fingerprint reader — *Some:* Touch style fingerprint reader on the keyboard bezel

NFC — *Some:* Near Field Communication

Battery type — Li-Polymer 4-cell (44Wh)

Battery life — Up to 10.0 hr

AC adapter
- *Some:* 45-watt AC adapter
- *Some:* 65-watt AC adapter

Light sensor — Ambient Light Sensor

G-sensor/ eCompass — 3D accelerometer and 3D magnetometer; 3D compass

Gyroscope — 3D gyrometer

Preload
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- *Some:* Windows® 7 Professional 64
- *Some:* Windows 10 Pro 64
- *Some:* Windows 10 Home 64

Limited warranty
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available
- 3-year - onsite repair service / service upgrades available

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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ThinkPad Yoga 260 20FE - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Smart card reader	Camera	Keyboard	TPM	Finger print reader	NFC	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20FE0057US	i7-6600U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	EM7455	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (44wh)	45W	Win10 P64	3-depot	No	04/16
20FE0059US	i5-6300U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	256GB SSD Opal2	None	8260 ac+BT	EM7455	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (44wh)	45W	Win10 P64	3-depot	No	04/16
20FE0058US	i7-6600U	vPro	HD 520	8GB	12.5" FHD	MT	Pen Pro	512GB SSD	None	8260 ac+BT	EM7455	None	Black	None	720p	Backlit	TPM	Finger	NFC	4 (44wh)	45W	Win10 P64	3-depot	No	04/16

- *For detailed platform specifications, please see ThinkPad Yoga 260 Platform Specifications sheet*

Processor — 6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI, Mini DisplayPort

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
- *Some:* 12.5" (317.5mm) HD (1366x768) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS
- *Some:* 12.5" (317.5mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS 300 nits, 16:9 aspect ratio, IPS

Multi-touch — Supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand and tablet

Pen — *Some:* ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* M.2 SSD / SATA 6.0Gb/s
- *Some:* M.2 SSD / PCIe NVMe 6.0Gb/s

Optical — None

WLAN — *One of the following, configurable by model (WiGig is mutually exclusive with WWAN):*
- *no vPro:* Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT, M.2 Card
- *vPro:* Intel Dual Band Wireless-AC 8260 with vPro, 2x2, Wi-Fi + BT, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Wireless WAN, Sierra Wireless EM7455 M.2 card

SIM card — Micro-SIM card slot

Dimensions — *12.5" (WxDxH):* 12.20" x 8.66" x 0.70" (309.9mm x 220mm x 17.8mm)

Weight — From 2.90 lb (1.32kg)

Case color — Midnight black or silver

Case Materal — Carbon-Fiber Hybrid

Smart Card Reader — *Some:* Smart Card Reader

Media reader — Micro SD, supports UHS-I SD card

Ports — Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Monitor cable — None

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, LED backlit, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

ThinkLight™ — None

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — *TPM:* Trusted Platform Module, TCG 1.2-compliant and Software TPM 2.0

vPro — *Some:* Intel vPro Technology

Fingerprint reader — *Some:* Touch style fingerprint reader on the keyboard bezel

NFC — *Some:* Near Field Communication

Battery type — Li-Polymer 4-cell (44Wh)

Battery life — Up to 10.0 hr

AC adapter
- *Some:* 45-watt AC adapter
- *Some:* 65-watt AC adapter

Light sensor — Ambient Light Sensor

G-sensor/ eCompass — 3D accelerometer and 3D magnetometer, 3D compass

Gyroscope — 3D gyrometer

Preload
- *Some:* Windows® 7 Professional 64
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- *Some:* Windows 10 Pro 64
- *Some:* Windows 10 Home 64

Limited warranty
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available
- 3-year - onsite repair service / service upgrades available

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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Lenovo® ThinkPad Yoga 460



Lenovo ThinkPad Yoga 460







Lenovo ThinkPad Yoga 460

ThinkPad Yoga 460 Platform Specifications

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, or
Nvidia Geforce 940M Graphics, 2GB DDR3 memory
(discrete graphics is only available in US);
supports external digital monitor via HDMI or Mini DisplayPort;
supports dual independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1600MHz DDR3L / one 204-pin SO-DIMM sockets

Display
- *Some:* 14.0" (355mm) WQHD (2560x1440), glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio (only available in US)
- *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio
- *Some:* 14.0" (355mm) FHD (1920x1080), glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* SSD / SATA 6.0Gb/s
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
- *Some:* SSHD with 8GB NAND flash memory

Optical — None

M.2 SSD *(opt)* — 16GB

Ethernet — Gigabit Ethernet via optional Ethernet (RJ-45) adapter
(by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))

WLAN — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model:*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.30" x 9.29" x 0.74"; 338.0mm x 236.0mm x 19.0mm

Weight — From 3.90 lb (1.80kg)

Case color — Black or Silver

Case materal — *Carbon:* Carbon-Fiber Hybrid display cover
Aluminum: Aluminum display cover

Smart card reader — None

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Adapter *(optional)*
- *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
- *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable
- *RJ45:* ThinkPad OneLink+ to RJ45 adapter
- *VGA/RJ45:* ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip
- *TPM2.0 :* Trusted Platform Module, TPM2.0 FW (firmware)
- *TPM1.2:* Trusted Platform Module, TCG 1.2-compliant
- *TPM :* TPM2.0 and TPM1.2

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Swipe fingerprint reader under C cover

NFC — None

Battery type — Li-Polymer 3-cell (53Wh)

Battery life — Up to 8.0 hr

AC adapter — 45W or 65W AC adapter

Light sensor — Ambient Light Sensor

G-sensor — 3D accelerometer and 3D magnetometer

Compass — 3D compass

Gyroscope — 3D gyrometer

Preload
Some: Windows 10 Pro 64
Some: Windows 10 Home 64
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- Lenovo Settings
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® Live Safe (30-day trial)

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Silver; ENERGY STAR®; RoHS-compliant

ThinkPad Yoga 460 20EM - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Case material	Adapter	Camera	Key-board	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EM001KUS	i7-6600U	vPro	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM001MUS	i7-6500U	No	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM001PUS	i5-6200U	No	HD 520	4GB	14.0" FHD IPS AG	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM001SUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM001JUS	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM001QUS	i5-6200U	No	HD 520	4GB	14.0" FHD IPS AG	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001NUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001LUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	180GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001UUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001RUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001TUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS AG	MT	Pen Pro	180GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Black	Carbon	None	720p	Backlit	TPM	Finger	3 (53wh)	45W	Win10 P64	1-depot	No	03/16

Processor — 6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics — Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort;

Chipset — Intel SoC (System on Chip) platform

Memory — 16GB max / 1600MHz DDR3L / one 204-pin SO-DIMM sockets

Display
- *Some:* 14.0" (355mm) WQHD (2560x1440), glare, LED backlight, IPS,
- *AG:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS,
- *Glare:* 14.0" (355mm) FHD (1920x1080), glare, LED backlight, IPS

Multi-touch — Capacitive touch panel, supports 10-finger gesture

Hinge — Yoga hinge, 360 degree

Convert-mode — Laptop, tent, stand, and tablet

Pen *(optional)* — ThinkPad Pen Pro, active pen for multi-touch display

Storage
- *Some:* SSD / SATA 6.0Gb/s
- *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
- *Some:* SSHD with 8GB NAND flash memory

Optical — None

WLAN — 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card

Bluetooth™ — Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model:*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card

SIM card — Micro-SIM card slot

Dimensions — *WxDxH:* 13.30" x 9.29" x 0.74"; 338.0mm x 236.0mm x 19.0mm)

Weight — From 3.90 lb (1.80kg)

Case color — Black or Silver

Case materal
- *Carbon:* Carbon-Fiber Hybrid display cover
- *Aluminum:* Aluminum display cover

Smart card reader — None

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Adapter *(optional)*
- *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
- *mDP-VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable
- *RJ45:* ThinkPad OneLink+ to RJ45 adapter
- *VGA/RJ45:* ThinkPad OneLink+ to VGA/RJ45 adapter

Camera — HD720p resolution, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ — TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip
- *TPM2.0 :* Trusted Platform Module, TPM2.0 FW (firmware)
- *TPM1.2:* Trusted Platform Module, TCG 1.2-compliant
- *TPM :* TPM2.0 and TPM1.2

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Swipe fingerprint reader under C cover

NFC — None

Battery type — Li-Polymer 3-cell (53Wh)

Battery life — Up to 8.0 hr

AC adapter — 45W or 65W AC adapter

Light sensor — Ambient Light Sensor

G-sensor — 3D accelerometer and 3D magnetometer

Compass — 3D compass

Gyroscope — 3D gyrometer

Preload
- *Some:* Windows 10 Pro 64
- *Some:* Windows 10 Home 64

Limited warranty — *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Silver; ENERGY STAR®; RoHS-compliant

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ThinkPad Yoga 460 20EM - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Color	Case material	Adapter	Camera	Key-board	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EM0026US	i5-6200U	No	HD 520	4GB	14.0" FHD IPS Glare	MT	Pen Pro	128GB SSD	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM002AUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	180GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM002CUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	180GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM001XUS	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0029US	i5-6200U	No	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0025US	i5-6200U	No	HD 520	4GB	14.0" FHD IPS Glare	MT	Pen Pro	192GB SSD	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	02/16
20EM002BUS	i5-6200U	No	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0028US	i7-6500U	No	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0027US	i5-6300U	vPro	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0024US	i7-6600U	vPro	HD 520	8GB	14.0" FHD IPS Glare	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16
20EM0023US	i7-6600U	vPro	HD 520	8GB	14.0" WQHD IPS	MT	Pen Pro	256GB SSD-SATA3.0 Opal2	None	8260 ac+BT	None	None	Silver	Aluminum	None	720p	Backlit	TPM	None	3 (53wh)	45W	Win10 P64	1-depot	No	03/16

- *For detailed platform specifications, please see ThinkPad Yoga 460 Platform Specifications sheet*

Processor 6th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	vPro
i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	No
i5-6300U			2.4 GHz	3.0 GHz	3MB			vPro
i7-6500U			2.5 GHz	3.1 GHz	4MB			No
i7-6600U			2.6 GHz	3.4 GHz	4MB			vPro

Graphics Intel HD Graphics 520 in processor only, supports external digital monitor via HDMI or Mini DisplayPort;

Chipset Intel SoC (System on Chip) platform

Memory 16GB max / 1600MHz DDR3L / one 204-pin SO-DIMM sockets

Display
Some: 14.0" (355mm) WQHD (2560x1440), glare, LED backlight, IPS,
AG: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS,
Glare: 14.0" (355mm) FHD (1920x1080), glare, LED backlight, IPS

Multi-touch Capacitive touch panel, supports 10-finger gesture

Hinge Yoga hinge, 360 degree

Convert-mode Laptop, tent, stand, and tablet

Pen *(optional)* ThinkPad Pen Pro, active pen for multi-touch display

Storage
Some: SSD / SATA 6.0Gb/s
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSHD with 8GB NAND flash memory

Optical None

WLAN 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 Card

Bluetooth™ Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* *One of the following, configurable by model:*
- Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card
- Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card

SIM card Micro-SIM card slot

Dimensions *WxDxH:* 13.30" x 9.29" x 0.74"; 338.0mm x 236.0mm x 19.0mm)

Weight From 3.90 lb (1.80kg)

Case color Black or Silver

Case materal *Carbon:* Carbon-Fiber Hybrid display cover
Aluminum: Aluminum display cover

Smart card reader None

Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports Three USB 3.0 (one Always On), Mini DisplayPort, HDMI, Onelink+ connector, combo audio / microphone jack

Adapter *(optional)* *HDMI-VGA:* Lenovo HDMI to VGA Monitor Cable
mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable
RJ45: ThinkPad OneLink+ to RJ45 adapter
VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter

Camera HD720p resolution, fixed focus

Audio support HD Audio, Conexant® CX11852 codec, Dolby® DAX2 / stereo speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip *TPM2.0 :* Trusted Platform Module, TPM2.0 FW (firmware)
TPM1.2: Trusted Platform Module, TCG 1.2-compliant
TPM : TPM2.0 and TPM1.2

vPro *(optional)* Intel vPro Technology

Fingerprint reader Swipe fingerprint reader under C cover

NFC None

Battery type Li-Polymer 3-cell (53Wh)

Battery life Up to 8.0 hr

AC adapter 45W or 65W AC adapter

Light sensor Ambient Light Sensor

G-sensor 3D accelerometer and 3D magnetometer

Compass 3D compass

Gyroscope 3D gyrometer

Preload
Some: Windows 10 Pro 64
Some: Windows 10 Home 64

Limited warranty *One of the following, configurable by model:*
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test MIL-STD-810G military certification

Environment EPEAT™ Silver; ENERGY STAR®; RoHS-compliant

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Lenovo Quick Pick (Accessories & Services)

Lenovo Quick Pick (**http://www.lenovoquickpick.com**) is an options and services configurator for Lenovo systems.

For the options and services information on ThinkPad systems, please see below:

ThinkPad 10 *http://www.lenovoquickpick.com/usa/system/thinkpad/tablet/thinkpad-10* **ThinkPad Tablet 2** *http://www.lenovoquickpick.com/usa/system/thinkpad/tablet/tablet-2*	**ThinkPad 11e Yoga** *http://www.lenovoquickpick.com/usa/system/thinkpad/other-thinkpad/thinkpad-11e-windows*
ThinkPad Helix *http://www.lenovoquickpick.com/usa/system/thinkpad/other-thinkpad/helix* *http://www.lenovoquickpick.com/usa/system/thinkpad/multimode/thinkpad-helix-2nd-gen* **ThinkPad Yoga** *http://www.lenovoquickpick.com/usa/system/thinkpad/other-thinkpad/yoga*	**ThinkPad Yoga 15** *http://www.lenovoquickpick.com/usa/system/thinkpad/yoga/yoga-15-s5*

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PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[5] **TAA:** ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[9] **CD/DVD drive speeds** list maximum rates; rates are variable and are often less than the maximum.

[10] **Battery:** These model numbers achieved the battery life based on MobileMark® 2012 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[11] **External monitor:** This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[13] **Internet access not included.**

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[16] **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.

[17] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[18] **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with Depot or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

[19] **Depot repair service:** The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[21] **For combination drives**, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.

[22] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.

[23] **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

[24] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[26] **Full-size keyboard:** As defined by ISO/IEC 15412.

[27] **Based on IEEE 802.11a and 802.11b.** A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

[28] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[30] **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

[32] **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

[36] **Wireless upgradable** allows the system to be wireless-enabled with an optional wireless Mini PCI or Mini PCI Express card. Designed to operate only with Lenovo options.

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ThinkCentre - Lenovo Quick Pick Accessories Photography

Recently Launched Think Accessories



ThinkPad Compact Bluetooth Keyboard with Trackpoint
(PN: 0B47189)



Lenovo Wireless TouchPad for Windows 8
(PN: 0A33909)



ThinkPad Noise Cancelling Earbuds
(PN: 0B47313)

Additional Think Accessories



ThinkPad USB 3.0 Portable Secure HDD (500GB , 750GB, 1TB)
(PN: 0A65619, 0A65616, 0A65621)



Kensington MicroSaver Security Cable Lock from Lenovo
(PN: 73P2582)



Lenovo Ultraslim Wireless Keyboard and Mouse Combo
(PN: 0A34032)

AMPLIFY YOUR DO MACHINE

LENOVO THINK ACCESSORIES

ThinkCentre - Lenovo Quick Pick Accessories

Lenovo Quick Pick (**http://www.lenovoquickpick.com/**) is an options compatiblity configurator for Lenovo systems.

For more information on the various ThinkCentre systems, please see below :

ThinkCentre M32

M32 Thin Client 10BM/10BV
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client

ThinkCentre M73

M73 Tiny 10AX/10AY
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tiny

M73 Small 10B4/10B5/10B6/10B7
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-sff

M73 Tower 10B0/10B1/10B2/10B3
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tower

ThinkCentre M78

M78 Small 10BS/10BT/10BU
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-sff

M78 Tower 10BN/10BQ/10BR
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-tower

ThinkCentre M79

M79 Small 10CT/10CU/10CV/10CW
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-sff

M79 Tower 10CN/10CQ/10CR/10CS
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-tower

ThinkCentre M83

M83 Small 10AH/10AJ/10AM/10AN
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-sff

M83 Tower 10AG/10AK/10AL/10BE
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-tower

ThinkCentre M93/M93p

M93/M93p Tiny 10A4/10A5/10AA/10AB
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tiny

M93/M93p Small 10A2/10A3/10A8/10A9
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff

M93/M93p Tower 10A0/10A1/10A6/10A7
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower

ThinkCentre E73

E73 Small 10AU/10AW/10BF/10BG
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-sff

E73 Tower 10AS/10AV
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower

ThinkCentre M73z

M73z AIO 10BB/10BC
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio

ThinkCentre M93z

M93z AIO 10AC/10AD/10AE/10AF
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93z-aio

ThinkCentre Edge 62z

Edge 62z AIO 2117
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/edge-62z-aio

ThinkCentre E63z

E63z AIO 10D4/10D5/10D6/10D7
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e63z-aio

ThinkCentre E93z

E93z AIO 10B8/10B9/10BA/10BH/10BJ/10BK
www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e93z-aio

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ThinkCentre Chromebox with optional Keyboard/mouse and monitor



ThinkCentre Chromebox



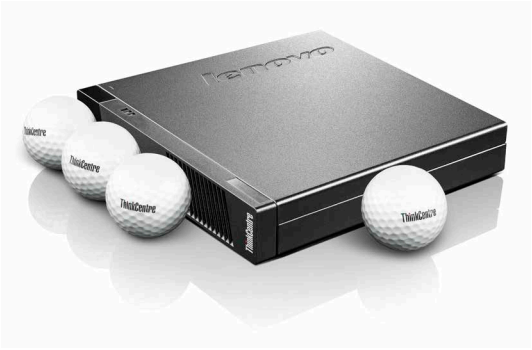
ThinkCentre Chromebox



ThinkCentre Chromebox



ThinkCentre Chromebox with TIO 23



ThinkCentre Chromebox

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ThinkCentre Chromebox Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron 3205U	2 / 2	1.50 GHz	2MB	DDR3L-1600	Intel HD
Celeron 3215U	2 / 2	1.70 GHz	2MB	DDR3L-1600	Intel HD
Core i3-5005U	2 / 4	2.00 GHz	3MB	DDR3L-1600	Intel HD 5500

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Celeron models: 4GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket;
Core i3 models: 8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

Disk
M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical
None

Onboard SATA
None

Media reader
None

Graphics
Intel HD Graphics or **Intel HD Graphics 5500,** in processor, uses main memory, DirectX® 11, one DisplayPort™, one HDMI, supports dual independent display;
Max resolution: 1920x1080 (DP)@60Hz; 1920x1080 (HDMI)@60Hz

DP cable
None

Chipset
Intel System-on-Chip (SoC) platform

Front ports
Two USB 3.0 (supports Always On), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
Two USB 3.0, ethernet (RJ-45), HDMI, DisplayPort

I/O box
None

Audio support
High Definition (HD) Audio, Realtek ALC233 / no internal speaker

WLAN[13]
11ac/a/b/g/n wireless, M.2 Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

Modem
None

Security chip
Trusted Platform Module, TCG 1.2-compliant

Security features
Security slot (in rear for optional Kensington® MicroSaver® cable)

Keyboard
Some: USB Keyboard (compatible with Chrome OS), Lenovo logo

Mouse
Some: Enhanced Optical USB Mouse, black, Lenovo logo

Mechanical
Tiny (1L), business black color; metal case, compatible with TIO 23

Chromebox only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.1 lb (0.95 kg), weight may vary by configuration

VESA mount
None

Floor Stand
Optional system floor stand for vertical orientation

Power supply
65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]
1-year, **depot service** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Chrome OS

Environment
ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; ErP Lot 3; RoHS-compliant

Accessories
For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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(TDS1-Spec) January 2016

ThinkCentre Chromebox (10H3) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10H30000US	i3-5005U	Intel HD 5500	4GBx1	16GB SSD M.2	None	7260 ac	None	None	None	None	None	USB/USB	None	None	Chrome OS	1-depot	No	05/15
10H30002US	i3-5005U	Intel HD 5500	2GBx1	16GB SSD M.2	None	7260 ac	None	None	None	None	None	USB/USB	None	None	Chrome OS	1-depot	No	05/15

- *For detailed platform specifications, please see ThinkCentre Chromebox Platform Specifications sheet*

Processor

Intel® Celeron® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron 3205U	2 / 2	1.50 GHz	2MB	DDR3L-1600	Intel HD
Celeron 3215U	2 / 2	1.70 GHz	2MB	DDR3L-1600	Intel HD
Core i3-5005U	2 / 4	2.00 GHz	3MB	DDR3L-1600	Intel HD 5500

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Celeron models: 4GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket;
Core i3 models: 8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

Disk

M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical

None

Onboard SATA

None

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 5500,** in processor, uses main memory, DirectX® 11, one DisplayPort™, one HDMI, supports dual independent display;
Max resolution: 1920x1080 (DP)@60Hz; 1920x1080 (HDMI)@60Hz

DP cable

None

Chipset

Intel System-on-Chip (SoC) platform

Front ports

Two USB 3.0 (supports Always On), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 3.0, ethernet (RJ-45), HDMI, DisplayPort

I/O box

None

Audio support

High Definition (HD) Audio, Realtek ALC233 / no internal speaker

WLAN[13]

11ac/a/b/g/n wireless, M.2 Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

Modem

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

Security slot (in rear for optional Kensington® MicroSaver® cable)

Keyboard

Some: USB Keyboard (compatible with Chrome OS), Lenovo logo

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo

Mechanical

Tiny (1L), business black color; metal case, compatible with TIO 23

Chromebox only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.1 lb (0.95 kg), weight may vary by configuration

VESA mount

None

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

1-year, **depot service** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Chrome OS

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; ErP Lot 3; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre Chromebox (10H5) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10H50003US	Cel 3205U	Intel HD	4GBx1	16GB SSD M.2	None	7260 ac	None	None	None	None	None	USB/USB	None	None	Chrome OS	1-depot	No	05/15
10H50005US	Cel 3205U	Intel HD	2GBx1	16GB SSD M.2	None	7260 ac	None	None	None	None	None	USB/USB	None	None	Chrome OS	1-depot	No	05/15

- *For detailed platform specifications, please see ThinkCentre Chromebox Platform Specifications sheet*

Processor

Intel® Celeron® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron 3205U	2 / 2	1.50 GHz	2MB	DDR3L-1600	Intel HD
Celeron 3215U	2 / 2	1.70 GHz	2MB	DDR3L-1600	Intel HD
Core i3-5005U	2 / 4	2.00 GHz	3MB	DDR3L-1600	Intel HD 5500

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Celeron models: 4GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket;
Core i3 models: 8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

Disk
M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical
None

Onboard SATA
None

Media reader
None

Graphics
Intel HD Graphics or **Intel HD Graphics 5500,** in processor, uses main memory, DirectX® 11, one DisplayPort™, one HDMI, supports dual independent display;
Max resolution: 1920x1080 (DP)@60Hz; 1920x1080 (HDMI)@60Hz

DP cable
None

Chipset
Intel System-on-Chip (SoC) platform

Front ports
Two USB 3.0 (supports Always On), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
Two USB 3.0, ethernet (RJ-45), HDMI, DisplayPort

I/O box
None

Audio support
High Definition (HD) Audio, Realtek ALC233 / no internal speaker

WLAN[13]
11ac/a/b/g/n wireless, M.2 Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

Modem
None

Security chip
Trusted Platform Module, TCG 1.2-compliant

Security features
Security slot (in rear for optional Kensington® MicroSaver® cable)

Keyboard
Some: USB Keyboard (compatible with Chrome OS), Lenovo logo

Mouse
Some: Enhanced Optical USB Mouse, black, Lenovo logo

Mechanical
Tiny (1L), business black color; metal case, compatible with TIO 23

Chromebox only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.1 lb (0.95 kg), weight may vary by configuration

VESA mount
None

Floor Stand
Optional system floor stand for vertical orientation

Power supply
65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]
1-year, **depot service** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Chrome OS

Environment
ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; ErP Lot 3; RoHS-compliant

Accessories
For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client
(inside view)



Lenovo ThinkCentre M32 Thin Client

ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0009US	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0007US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000EUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000FUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000AUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000BUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year depot warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **depot repair service** / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0005US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0001US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000MUS	Celeron 847	2GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	11/10/15
10BV000KUS	Celeron 847	4GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	11/10/15
10BV000PUS	Celeron 847	4GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/01/15
10BV000NUS	Celeron 847	2GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/01/15

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB, 8GB, or 16GB / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0004US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0000US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV0002US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000GUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000HUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000CUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000DUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000JUS	Celeron 847	2GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	11/10/15
10BV000LUS	Celeron 847	4GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	11/10/15
10BV000RUS	Celeron 847	2GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/01/15
10BV000QUS	Celeron 847	4GBx1	16G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/01/15

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB, 8GB, or 16GB / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	• Business black color; USFF (2L) • Fan-less, Cable-less Design • (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H • (*Wthout stand*) 55mm W X 170mm D X 220mm H • (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

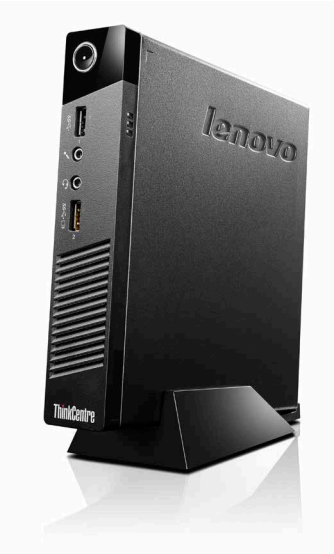
For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M53 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M53 Tiny with optional floor stand



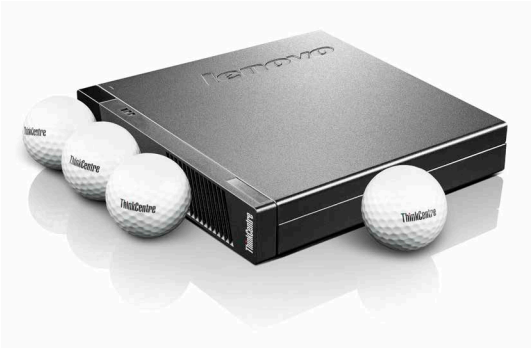
ThinkCentre M53 Tiny with optional VESA mount kit



ThinkCentre M53 Tiny with optional optical box



ThinkCentre M53 Tiny with optional I/O box



ThinkCentre M53 Tiny

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ThinkCentre M53 Tiny Platform Specifications

Processor

Intel® Celeron® Processor J1000 Series for Desktop or
Intel Pentium® Processor J2000 Series for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide or M.2
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Ready to install applications (for Win7)
- Rescue and Recovery™
- Password Manager

Web install applications (for Win8.1)
- Password Manager

Preloaded applications (only some listed)
- For both Windows 7 and Windows 8.1
- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Lenovo Reach
- Lenovo SHAREit
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

- Only for Windows 7:
- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Message Center Plus

- Only for Windows 8.1:
- Cyberlink PowerDVD (DVD±RW, DVD)
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Some: Windows® Embedded Standard 7 (WES 7)
Some: Windows Embedded 8 Standard (WE8S)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)
- WE8S only:
- Intel Trusted Execution Engine Interface
- RDP Client (RDP 8 support)
- Citrix Receiver
- VMware Client
- Internet Explorer 10
- Java 8
- Adobe Flash Player
- Microsoft Visual C++ Redistributable
- Microsoft Windows Embedded Keyboard Filter Database
- Microsoft® Silverlight
- Echo Agent (client for LTM)
- UltraVnc
- Adobe Acrobat Reader DC

- WES 7 only:
- Intel Management Engine Components
- RDP Client (RDP 8 support)
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent (client for LTM)
- Lenovo Thin Client Manager (LTM)
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:
- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- AnyConnect VPN Client

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

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ThinkCentre M53 Tiny (10DC) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DC0011US	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC0012US	Pentium J2900	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC001GUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DC001JUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DC001HUS	Pentium J2900	4GBx1	Intel HD	180GB SSD OPAL	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DC001PUS	Pentium J2900	4GBx1	Intel HD	120GB SSD	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	05/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide or M.2
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10DE) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DE0004US	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE0005US	Celeron J1800	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE001HUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DE001LUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DE001KUS	Celeron J1800	4GBx1	Intel HD	128GB SSD	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide or M.2
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M53 Tiny (10ED) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10ED0000US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0001US	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0002US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0003US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0007US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15
10ED0008US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/15
10ED0009US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15
10ED000KUS	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	11/15
10ED000LUS	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	11/15
10ED000MUS	Celeron J1800	2GBx1	Intel HD	32GB SSD M.2	None	RTL8723BE	None	None	None	Stand	Mount	USB	Speaker	65W	None	WE8S	3-onsite	No	12/15
10ED000NUS	Celeron J1800	4GBx1	Intel HD	32GB SSD M.2	None	RTL8723BE	None	None	None	Stand	Mount	USB	Speaker	65W	None	WE8S	3-onsite	No	12/15
10ED000PUS	Celeron J1800	2GBx1	Intel HD	32GB SSD M.2	None	RTL8723BE	None	None	None	Stand	Mount	USB	Speaker	65W	None	WE8S	1-onsite	No	12/15
10ED000QUS	Celeron J1800	4GBx1	Intel HD	32GB SSD M.2	None	RTL8723BE	None	None	None	Stand	Mount	USB	Speaker	65W	None	WE8S	1-onsite	No	12/15

- *For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor J1000 Series* for Desktop or
Intel Pentium® Processor J2000 Series* for Desktop

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD

Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11,
one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide or M.2
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 3.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

None

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), business black color; metal case

M53 Tiny only:
7.0" W X 7.2" D X 1.4" H
179mm W X 182mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & optical box:
7.2" W X 7.2" D X 2.55" H
184mm W X 182mm D X 65mm H
4.6 lb (2.1 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M600 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M600 Tiny with optional floor stand



ThinkCentre M600 Tiny with optional VESA mount kit



ThinkCentre M600 Tiny



ThinkCentre M600 Tiny with optional I/O box



ThinkCentre M600 Tiny with TIO

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ThinkCentre M600 Tiny Platform Specifications

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3000	2 / 2	1.04 / 2.08 GHz	2MB	DDR3L-1600	Intel HD
Celeron N3050	2 / 2	1.6 / 2.16 GHz	2MB	DDR3L-1600	Intel HD
Pentium N3700	4 / 4	1.6 / 2.4 GHz	2MB	DDR3L-1600	Intel HD

Chipset

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP or VGA, supports triple independent display; Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz; 1920x1080(DP to VGA dongle)@60Hz; 1920x1080(DP to DVI dongle)@60Hz; 3840x2160(DP to HDMI dongle)@30Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage

Some: M.2 Solid State Drive (SSD), SATA interface
Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: external ODD box with DVD-ROM, 9.5mm high, via USB
Some: external ODD box with DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD-ROM, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD±RW, 9.5mm high, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connectors on planar

Media reader

None

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone;

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), black color; metal case

	Dimensions (WxDxH)	Max weight (lb / kg)
M600 Tiny only (1L)	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.9 lb (1.3 kg)
M600 Tiny (1L) with VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	4.12 lb (1.87 kg)
M600 Tiny (1L) with VESA mount & I/O box	7.42" X 7.30" X 2.62" 188.4mm X 185.38mm X 66.6mm	3.53 lb (1.6 kg)

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available

For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion (Win10)
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- RDP Client (RDP 8.1 support)
- Citrix Client
- VMware Client
- Internet Explorer 11
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent (client for LTM, Lenovo Thin Client Manager)
- Adobe Reader
- UltraVNC

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M600 Tiny (10GB) - TopSeller

Model	Case 1L/2L	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy
10GB000LUS	1L	Celeron N3050	4GBx1	Intel HD	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win10	3-onsite	No	10/15
10GB000MUS	1L	Celeron N3050	4GBx1	Intel HD	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win10 Pro64	3-onsite	No	10/15
10GB000JUS	1L	Celeron N3050	4GBx1	Intel HD	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win10 Pro64	3-onsite	No	10/15
10GB000KUS	1L	Celeron N3050	4GBx1	Intel HD	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win10	3-onsite	No	10/15

- *For detailed platform specifications, please see ThinkCentre M600 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3000	2 / 2	1.04 / 2.08 GHz	2MB	DDR3L-1600	Intel HD
Celeron N3050	2 / 2	1.6 / 2.16 GHz	2MB	DDR3L-1600	Intel HD
Pentium N3700	4 / 4	1.6 / 2.4 GHz	2MB	DDR3L-1600	Intel HD

Chipset
Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics
Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP or VGA, supports triple independent display; Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz

Monitor cable
Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory
8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage
Some: M.2 Solid State Drive (SSD), SATA interface
Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical
Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA
SATA 6.0Gb/s controller, one connectors on planar

Front ports
Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone;

I/O box
Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)

Audio support
High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]
Some: 11ac, M.2, Realtek RTL8821AE (dual band), Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + BT 4.1, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + BT 4.1, 2x2
Some: 11ac, M.2, Intel Dual Band Wireless-AC 3165, Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Intel Dual Band Wireless-AC 8260, Wi-Fi + BT 4.1, 2x2

Bluetooth™
Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet
One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Manageability
None

Security chip
Trusted Platform Module, TCG 1.2-compliant

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard
Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
- Tiny (1L), black color; metal case

VESA mount
Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand
Optional system floor stand for vertical orientation

Power supply
65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]
Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment
ENERGY STAR® 6.0*, EPEAT™ Gold rating*(*for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories
For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M600 Tiny (10G9) - TopSeller

Model	Case 1L/2L	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10G9000KUS	1L	Pentium N3700	4GBx1	Intel HD	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win10	3-onsite	No	10/15
10G9000LUS	1L	Pentium N3700	4GBx1	Intel HD	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win10 Pro64	3-onsite	No	10/15
10G9000MUS	1L	Pentium N3700	4GBx1	Intel HD	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win10 Pro64	3-onsite	No	10/15
10G9000NUS	1L	Pentium N3700	4GBx1	Intel HD	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win10	1-onsite	No	10/15

- *For detailed platform specifications, please see ThinkCentre M600 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3000	2 / 2	1.04 / 2.08 GHz	2MB	DDR3L-1600	Intel HD
Celeron N3050	2 / 2	1.6 / 2.16 GHz	2MB	DDR3L-1600	Intel HD
Pentium N3700	4 / 4	1.6 / 2.4 GHz	2MB	DDR3L-1600	Intel HD

Chipset

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP or VGA, supports triple independent display; Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage

Some: M.2 Solid State Drive (SSD), SATA interface
Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connectors on planar

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone;

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac, M.2, Realtek RTL8821AE (dual band), Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + BT 4.1, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + BT 4.1, 2x2
Some: 11ac, M.2, Intel Dual Band Wireless-AC 3165, Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Intel Dual Band Wireless-AC 8260, Wi-Fi + BT 4.1, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), black color; metal case

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating*(*for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M600 Tiny (10KH) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Model	Case 1L/2L	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10KH0001US	1L	Celeron N3000	2GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/16
10KH0002US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	3-onsite	No	01/16
10KH0003US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/16
10KH0004US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	3-onsite	No	01/16
10KH0005US	1L	Celeron N3000	2GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	3-onsite	No	01/16
10KH0006US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	3-onsite	No	01/16
10KH0007US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/16
10KH0008US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/16
10KH0009US	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	3-onsite	No	01/16
10KH000AUS	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	Serial	None	Switch	Stand	None	USB	Speaker	65W	None	WES7	3-onsite	No	01/16
10KH000BUS	1L	Celeron N3000	2GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/16
10KH000CUS	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/16
10KH000DUS	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	Serial	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	3-onsite	No	01/16
10KH000EUS	1L	Celeron N3000	2GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	3-onsite	No	01/16
10KH000FUS	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/16
10KH000GUS	1L	Celeron N3000	4GBx1	Intel HD	16GB SSD M.2	None	RTL8821AE ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	LeTOS	3-onsite	No	01/16

- *For detailed platform specifications, please see ThinkCentre M600 Tiny Platform Specifications sheet*

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3000	2 / 2	1.04 / 2.08 GHz	2MB	DDR3L-1600	Intel HD
Celeron N3050	2 / 2	1.6 / 2.16 GHz	2MB	DDR3L-1600	Intel HD
Pentium N3700	4 / 4	1.6 / 2.4 GHz	2MB	DDR3L-1600	Intel HD

Chipset
Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics
Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP or VGA, supports triple independent display; Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz

Monitor cable
Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory
8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage
Some: M.2 Solid State Drive (SSD), SATA interface
Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical
Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA
SATA 6.0Gb/s controller, one connectors on planar

Front ports
Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone;

I/O box
Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)

Audio support
High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]
Some: 11ac, M.2, Realtek RTL8821AE (dual band), Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + BT 4.1, 1x1
Some: 11ac, M.2, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + BT 4.1, 2x2
Some: 11ac, M.2, Intel Dual Band Wireless-AC 3165, Wi-Fi + BT 4.0, 1x1
Some: 11ac, M.2, Intel Dual Band Wireless-AC 8260, Wi-Fi + BT 4.1, 2x2

Bluetooth™
Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet
One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Manageability
None

Security chip
Trusted Platform Module, TCG 1.2-compliant

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard
Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
- Tiny (1L), black color; metal case

VESA mount
Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand
Optional system floor stand for vertical orientation

Power supply
65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]
Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment
ENERGY STAR® 6.0*, EPEAT™ Gold rating*(*for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories
For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M73 Tiny
with Optional WLAN



ThinkCentre M73 Tiny with
ThinkVision Monitor



ThinkCentre M73 Tiny
with optional I/O Box



ThinkCentre M73 Tiny with
ThinkVision Monitor



ThinkCentre M73 Tiny with
optional External Optical Box



ThinkCentre M73 Tiny

ThinkCentre



ThinkCentre M73 Small
and Mini Tower



ThinkCentre M73 Small
with ThinkVision Monitor



ThinkCentre M73 Small



ThinkCentre M73 Mini Tower
with ThinkVision Monitor



ThinkCentre M73 Mini Tower



ThinkCentre M73 Mini Tower

ThinkCentre M73 Tiny (10AY) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0037US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AY0038US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14
10AY0039US	G1820T	4GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14

- *1-year depot warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models) \
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10DL) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Warranty (year)	Ann date *(mm/yy)*
10DL0001US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL0006US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0003US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0005US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0004US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0007US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0002US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL000BUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0008US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000AUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0009US	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000CUS	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL000WUS	G1840T	4GBx1	16G DOM Card	None	Intel HD	7260 ac	None	None	Stand	None	USB	LeTOS	1-onsite	11/15
10DL000VUS	G1840T	2GBx1	16G DOM Card	None	Intel HD	7260 ac	None	None	Stand	None	USB	LeTOS	1-onsite	11/15
10DL0013US	G1840T	4GBx1	16G DOM Card	None	Intel HD	7260 ac	None	None	Stand	None	USB	WES 7	3-onsite	12/15
10DL000YUS	G1840T	2GBx1	32GB SSD M.2	None	Intel HD	RTL8723BE	None	None	Stand	None	USB	WE8S	1-onsite	12/15
10DL0010US	G1840T	2GBx1	32GB SSD M.2	None	Intel HD	RTL8723BE	None	None	Stand	None	USB	WE8S	3-onsite	12/15
10DL000XUS	G1840T	4GBx1	32GB SSD M.2	None	Intel HD	RTL8723BE	None	None	Stand	None	USB	WE8S	1-onsite	12/15
10DL0011US	G1840T	4GBx1	32GB SSD M.2	None	Intel HD	RTL8723BE	None	None	Stand	None	USB	WE8S	3-onsite	12/15

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Celeron G1840T Processor** (**2 cores / 2 threads**, 2.5GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Flash Memory	8GB / 16GB / DOM (Disk On Module) Card or Solid State Drive (SSD), M.2 to SATA
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-year or 3-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: Genuine Windows Embedded 8 Standard (WE8S)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- Windows Embedded only:
- Intel Trusted Execution Engine Interface
- RDP Client (RDP 8 support)
- Citrix Receiver
- VMware Client
- Internet Explorer
- Java 8
- Adobe Flash Player
- Microsoft Visual C++ Redistributable (WE8S)
- Microsoft Windows Embedded Keyboard Filter Database (WE8S)
- Microsoft® Silverlight
- Echo Agent (client for LTM)
- UltraVnc (WE8S)
- Adobe Acrobat Reader DC

- LeTOS only:
- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 6.0 (WES models)
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AY) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0005US	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY0006US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001SUS	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001TUS	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001UUS	G3220T	4GBx1	500G Hybrid	None	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001VUS	i3-4130T	8GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001WUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0004US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	None	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0020US	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY001YUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY002SUS	G1820T	4GBx1	500G 7200	None	Intel HD	7260 ac	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14
10AY003AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 6235	None	None	Stand	None	USB	Win7 Pro64 (DG)	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced Oct 1, Oct 22, or Nov 12, 2013 or Jan 14 or Feb 11, 2014

(MLM1N-1) February 2014

ThinkCentre M73 Tiny (10AY) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Key-board / mouse	Warranty (year)	Preload	Ann date *(mm/dd/yy)*
10AY003JUS	G3220T	4GBx1	500G 7200	None	Intel HD	BCM4352	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY003KUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY003HUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG Win8.1	04/01/14
10AY008HUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	N105	None	None	None	None	USB	3-onsite	Win7 P64 DG Win8	02/10/15
10AY008GUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N105	None	None	None	None	USB	1-onsite	Win7 P64 DG Win8	02/10/15

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm\ *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-year or 3-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AY) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0081US	G3240T	4GBx1	500G 5400	None	Intel HD	8723BE	None	None	Stand	None	USB(slim)	Win7 P64 DG Win8.1	10/14/14
10AY0082US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0083US	i3-4150T	4GBx1	180G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0085US	i3-4150T	8GBx1	256G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0086US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0087US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	None	Mount	USB	Win7 P64 DG Win8.1	10/14/14
10AY0088US	i5-4590T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY0089US	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008AUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008BUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008CUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008DUS	i7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008EUS	i7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14
10AY008FUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	10/14/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240T Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* harddisk, 2.5" Wide, 5400 or 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H, 179mm W X 182mm D X 34.5mm H, 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H, 184mm W X 182mm D X 65mm H, 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AY) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY008MUS	i5-4570T	4GBx1	120G SSD	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 P64 DG Win8	05/05/15
10AY008NUS	i5-4570T	4+2GB	500G 7200	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 P64 DG Win8	05/05/15
10AY0091US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win10	10/20/15
10AY0092US	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win10	10/20/15
10AY0094US	i7-4785T	8GBx1	192G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win10	10/20/15
10AY009CUS	i5-4590T	4GBx1	120G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win10	10/20/15
10AY009DUS	i3-4150T	4GBx1	500G 7200	DVD±RW	HD 4400	7260 b/g/n	None	None	None	Mount	USB	Win7 P64 DG Win8.1	10/20/15
10AY009FUS	i3-4150T	4GBx1	500G 7200	DVD±RW	HD 4400	7260 b/g/n	None	None	None	Mount	USB	Win7 P64 DG Win10	10/20/15
10AY009GUS	i5-4590T	4GBx1	120G SSD	DVD±RW	HD 4600	7260 b/g/n	None	None	None	Mount	USB	Win7 P64 DG Win8.1	10/20/15
10AY009HUS	i5-4590T	4GBx1	120G SSD	None	HD 4600	7260 ac	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/20/15
10AY009JUS	i5-4590T	4GBx1	120G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG Win8.1	10/20/15

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* harddisk, 2.5" Wide, 5400 or 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73 Tiny (10AY) - TopSeller - V

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0095US	i7-4785T	8GBx1	192G SSD	DVD±RW	HD 4600	7260 b/g/n	None	None	None	Mount	USB	Win10 Pro64	09/22/15
10AY0096US	i5-4590T	4GBx1	120G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win10 Pro64	09/22/15
10AY0093US	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win10 Pro64	09/22/15
10AY0097US	i3-4150T	4GBx1	500G 7200	DVD±RW	HD 4400	7260 b/g/n	None	None	None	Mount	USB	Win10 Pro64	09/22/15
10AY0099US	i7-4785T	8GBx1	192G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win10 Pro64	09/22/15
10AY008YUS	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win10 Pro64	09/22/15
10AY0098US	i5-4590T	4GBx1	500G 7200	DVD±RW	HD 4600	7260 b/g/n	None	None	None	Mount	USB	Win10 Pro64	09/22/15

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-4150T Processor** (**2 cores / 4 threads**, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* harddisk, 2.5" Wide, 5400 or 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 10 Pro 64-bit

Preloaded applications (only some listed)

- Lenovo Companion
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

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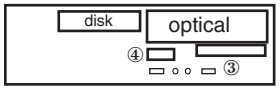
ThinkCentre M73 Small (10B6) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B60008US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B60009US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000AUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000BUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000FUS	3x4	i3-4130	8GBx1	1TB 7200	DVD±RW	N105	None	GT620	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000GUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	N105	None	Intel HD	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000PUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000QUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000RUS	3x4	i7-4770	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt) (**No internal speaker for 10B6000PUS*)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or November 12, 2013

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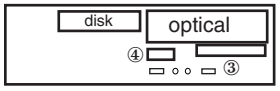
ThinkCentre M73 Small (10B6) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B6000XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B6000YUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60011US	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60013US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60012US	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60014US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60015US	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1	03/25/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced February 4 or 11 or March 25, 2014

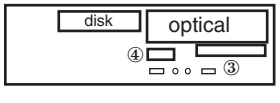
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ThinkCentre M73 Small (10B6) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/yy)*
10B6001SUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001NUS	3x4	i3-4150	4GBx1	180G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001AUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001RUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001TUS	3x4	i5-4590	8GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001PUS	3x4	i3-4150	8GBx1	256G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001VUS	3x4	i5-4590	4GBx1	180G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001QUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001UUS	3x4	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001WUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001YUS	3x4	i3-4150	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	P	None	None	None	Win7 P64 DG Win8.1	10/14
10B6001XUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	P	None	None	None	Win7 P64 DG Win8.1	10/14
10B60020US	3x4	i5-4590	4GBx1	120G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	05/15
10B6002WUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win10	08/15
10B6002YUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 P64 DG Win10	08/15
10B6002XUS	3x4	i5-4690	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win10	08/15
10B6003AUS	3x4	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win10 Pro64	12/15
10B60039US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	P	Stand	None	None	Win7 P64 DG Win8.1	12/15
10B6003BUS	3x4	i5-4590	4GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win10 Pro64	12/15

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4690 Processor** (**4 cores / 4 threads**, 3.5GHz, 6MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking)
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service** / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1/10 Pro 64-bit
Some: Windows 10 Pro 64-bit

Preloaded applications (Win7)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Preloaded applications (Win10)
- Lenovo Companion
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)

Security
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

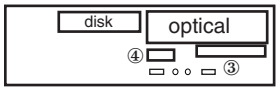
See footnotes for important warranty information

ThinkCentre M73 Small (10B5) - ES 6.0 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Internal Speaker	Preload	Ann date *(mm/dd/yy)*
10B50001US	3x4	i5-4570	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	None	ES6.0	Speaker	Win7 Pro64 (DG)	10/13
10B5000MUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	01/14
10B5000TUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	10/14
10B5000WUS	3x4	i3-4150	2GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG Win8.1	10/14
10B5000VUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG Win8.1	10/14
10B5000UUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG Win8.1	10/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

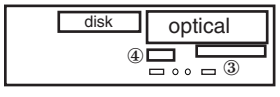
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ThinkCentre M73 Small (10B5) - ES 6.0 (TopSeller) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Internal Speaker	Preload	Ann date *(mm/dd/yy)*
10B50014US	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Floor	ES6.0	Speaker	Win10 Pro64	09/15
10B50013US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Floor	ES6.0	Speaker	Win10 Pro64	09/15

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 10 Pro 64-bit

Preloaded applications (only some listed)

- Lenovo Companion
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

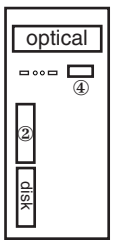
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ThinkCentre M73 Mini Tower (10B0) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B00005US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00006US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00007US	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B00008US	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B0000GUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/22/13
10B0000HUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000JUS	3x4	i5-4570	4GBx1	1TB Hybrid	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000KUS	3x4	i3-4130	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000LUS	3x4	i5-4570	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000NUS	3x4	G3220	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000QUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8.1	02/11/14
10B0000RUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, active PFC
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

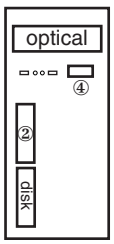
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ThinkCentre M73 Mini Tower (10B0) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B00017US	3x4	G3240	4GBx2	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00016US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00019US	3x4	i7-4790	8GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00011US	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00014US	3x4	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00013US	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00012US	3x4	G3240	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00018US	3x4	i7-4790	4GBx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14
10B00015US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	10/28/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, active PFC
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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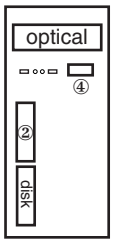
ThinkCentre M73 Mini Tower (10B2) - ES 6.0 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global	Preload	Ann date *(mm/dd/yy)*
10B20002US	3x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	ES6.0	None	Win7 Pro64 (DG)	10/01/13
10B2000QUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	ES6.0	None	Win7 P64 DG Win8.1	01/14/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or January 14, 2014

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(MLM1T-2) January 2014

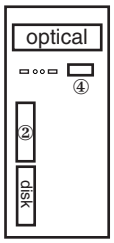
ThinkCentre M73 Mini Tower (10B2) - ES 6.0 (TS) - Win 10

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Internal Speaker	Preload	Ann date *(mm/dd/yy)*
10B20010US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	None	Win10 Pro64	08/18/15
10B2000YUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	ES6.0	None	Win10 Pro64	08/18/15
10B20011US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	Speaker	Win10 Pro64	09/22/15
10B20012US	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	ES6.0	Speaker	Win10 Pro64	09/22/15

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 10 Pro 64-bit

Preloaded applications (only some listed)

- Lenovo Companion
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MLM1T-6) September 2015



ThinkCentre M700 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M700 Tiny with optional floor stand



ThinkCentre M700 Tiny with optional VESA mount kit



ThinkCentre M700 Tiny with optional serial port



ThinkCentre M700 Tiny with optional I/O box



ThinkCentre M700 Tiny with TIO

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ThinkCentre M700 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM, 9.5mm high, via USB
Some: external ODD box with DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD-ROM, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & ODD box:
7.42" W X 7.30" D X 2.48" H
188.4mm W X 185.38mm D X 63mm H
4.12 lb (1.87 kg), weight may vary by configuration
With VESA mount & I/O box:
7.42" W X 7.30" D X 2.62" H
188.4mm W X 185.38mm D X 66.6mm H
3.53 lb (1.6 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools
- Intel Unite (vPro models only)

- Only for Window 10
- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7
- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:
- RDP Client (RDP 8.1 support)
- Citrix Client
- VMware Client
- Internet Explorer 11
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent (client for LTM, Lenovo Thin Client Manager)
- Adobe Reader
- UltraVNC

- LeTOS only:
- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*for Windows models only); ErP Lot 3; GREENGUARD®; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10HY) - TopSeller

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10HY0004US	i5-6400T	4GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0005US	i5-6400T	4GBx1	HD 530	180GB SSD opal	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0006US	i5-6500T	4GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0007US	i5-6500T	4GBx1	HD 530	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0008US	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0009US	i5-6400T	4GBx1	HD 530	500GB 7200	DVD±RW	8260 ac	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY000AUS	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY000BUS	i7-6700T	8GBx1	HD 530	120GB SSD	DVD±RW	8260 ac	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY000CUS	i7-6700T	8GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY000DUS	i5-6400T	4GBx1	HD 530	500GB 7200	DVD±RW	8260 ac	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY000EUS	i7-6700T	8GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY000FUS	i7-6700T	8GBx1	HD 530	120GB SSD	DVD±RW	8260 ac	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY000GUS	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY000HUS	i5-6500T	4GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10HY) - TopSeller - II

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10HY000JUS	i5-6400T	4GBx1	HD 530	120GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY000KUS	i5-6500T	4GBx1	HD 530	500GB 7200	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0013US	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0014US	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0015US	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0016US	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0017US	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0018US	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0019US	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001AUS	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001BUS	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001CUS	i7-6700T	8GBx1	HD 530	128GB SSD	None	8260 ac	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001DUS	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001EUS	i7-6700T	8GBx1	HD 530	180GB SSD opal	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10HY) - TopSeller - III

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10HY001FUS	i5-6400T	4GBx1	HD 530	180GB SSD opal	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001GUS	i7-6700T	8GBx1	HD 530	500GB 7200	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001HUS	i7-6700T	8GBx1	HD 530	128GB SSD	DVD±RW	8260 ac	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001JUS	i5-6400T	4GBx1	HD 530	500GB 7200	None	8260 ac	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001KUS	i7-6700T	8GBx1	HD 530	180GB SSD opal	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001LUS	i7-6700T	8GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001MUS	i5-6500T	4GBx1	HD 530	180GB SSD opal	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001NUS	i5-6400T	4GBx1	HD 530	500GB 7200	DVD±RW	8260 ac	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001PUS	i5-6400T	4GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY001QUS	i5-6400T	8GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	None	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001RUS	i5-6500T	8GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	None	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001SUS	i3-6100T	4GBx1	HD 530	500GB 7200	None	3165 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001TUS	i3-6100T	4GBx1	HD 530	128GB SSD	None	3165 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY001UUS	i3-6100T	4GBx1	HD 530	500GB 7200	DVD±RW	3165 ac	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10HY) - TopSeller - IV

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10HY001VUS	i3-6100T	4GBx1	HD 530	128GB SSD	None	3165 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001WUS	i3-6100T	4GBx1	HD 530	128GB SSD	None	3165 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001XUS	i3-6100T	4GBx1	HD 530	500GB 7200	None	3165 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY001YUS	i3-6100T	4GBx1	HD 530	500GB 7200	None	3165 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0020US	i3-6100T	4GBx1	HD 530	500GB 7200	None	3165 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0021US	i3-6100T	8GBx1	HD 530	128GB SSD	None	3165 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0022US	i3-6100T	4GBx1	HD 530	500GB 7200	DVD±RW	3165 ac	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0023US	i3-6100T	4GBx1	HD 530	128GB SSD	DVD±RW	3165 ac	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0024US	i5-6500T	4GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0025US	i7-6700T	8GBx1	HD 530	128GB SSD	DVD±RW	8260 ac	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0026US	i7-6700T	8GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Windows 10 Pro 64	3-onsite	No	01/16
10HY0027US	G4400T	4GBx1	HD 510	500GB 7200	None	3165 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0028US	i5-6400T	4GBx1	HD 530	256GB SSD opal	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY0029US	i5-6500T	4GBx1	HD 530	256GB SSD opal	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10HY) - TopSeller - V

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10HY002AUS	i5-6500T	8GBx1	HD 530	256GB SSD opal	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY002BUS	i5-6400T	8GBx1	HD 530	256GB SSD opal	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY002CUS	i5-6400T	4GBx1	HD 530	128GB SSD	None	8260 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10HY003JUS	i5-6600T	8GBx1	HD 530	500GB 7200 rpm	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	03/16
10HY003HUS	i5-6500T	8GBx1	HD 530	128GB SSD	None	8260 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	03/16
10HY003KUS	i5-6600T	8GBx1	HD 530	128GB SSD	None	8260 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	Win7 P64 DG Win10	3-onsite	No	03/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 Tiny (10JQ) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Adapter Cage	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10JQ0000US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	WES7	3-onsite	No	03/16
10JQ0005US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	LeTOS	3-onsite	No	03/16
10JQ0002US	i3-6100T	4GBx1	HD 530	16 SSD M.2	None	QCA6174 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	WES7	3-onsite	No	03/16
10JQ0006US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	LeTOS	3-onsite	No	03/16
10JQ0001US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	VGA	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	WES7	3-onsite	No	03/16
10JQ0003US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	WES7	3-onsite	No	03/16
10JQ0004US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	Serial	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	WES7	3-onsite	No	03/16
10JQ0008US	i3-6100T	4GBx1	HD 530	16 SSD M.2	None	QCA6174 ac	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	LeTOS	3-onsite	No	03/16
10JQ0007US	G4400T	4GBx1	HD 510	16 SSD M.2	None	QCA6174 ac	Serial	None	Switch	Stand	None	USB	Speaker	65W	None	None	None	LeTOS	3-onsite	No	03/16

- *For detailed platform specifications, please see ThinkCentre M700 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 Solid State Drive (SSD) / SATA interface

Optical

Some: external ODD box with DVD-ROM or DVD±RW, 9.5mm, via USB
Some: external ODD box (for TIO) with DVD-ROM or DVD±RW, 9.5mm, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel B150 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M700 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.0, M.2 Card, Realtek RTL8821AE (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LV (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M700 Tiny only:
7.05" W X 7.20" D X 1.36" H (179mm W X 182.9mm D X 34.5mm H)
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

See footnotes for more detailed information

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ThinkCentre M700 SFF
with optional monitor



ThinkCentre M700 SFF



ThinkCentre M700 SFF
top view



ThinkCentre M700 SFF
bottom view



ThinkCentre M700 SFF
front and back view
(with optional card reader and front USB 2.0)



ThinkCentre M700 SFF
left and right view

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ThinkCentre M700 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, supports two independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

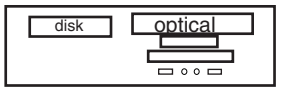
Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter



Bay 1: N/A, 9.5mm high, external, std optical
Bay 2: 3.5", 1" high, internal, std disk
Bay 3: 2.5", N/A, internal, opt 2nd 2.5" disk (optional bay)
Bay 4: N/A, N/A, external, opt reader
Slot 1: Low Profile, PCI Express 3.0 x16
Slot 2: Low Profile, PCIe 2.0 x1
Slot 3: Low Profile, PCIe 2.0 x1

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*Need 85% PSU and Windows OS); ErP Lot 3; GREENGUARD®; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M700 SFF (10GT) - TopSeller

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GT003FUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 3165 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / None	210W	3-onsite	No	Windows 10 Pro64	01/16
10GT003BUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002MUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002SUS	i5-6400	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002DUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002HUS	i5-6400	8GBx1	128GB SSD	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002LUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	GT 720 1GB	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002EUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002FUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 510	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002RUS	i7-6700	8GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002JUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002GUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16

- *For detailed platform specifications, please see ThinkCentre M700 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5" bayx1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): one PCIe 3.0 x16, two PCIe 2.0 x1

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700 SFF (10GT) - TopSeller - II

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GT002UUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002QUS	i7-6700	8GBx1	120GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT003CUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 510	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT0038US	i5-6400	8GBx1	120GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002NUS	i5-6400	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	GT 720 2GB	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002VUS	i5-6400	8GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002TUS	i7-6700	8GBx1	256GB SSD opal	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002PUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT003AUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 3165 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT0037US	i5-6400	8GBx1	192GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT0039US	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT003GUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 3165 ac	None	Intel HD 510	None	None	None	None	Stand	None	USB / None	210W	3-onsite	No	Windows 10 Pro64	01/16
10GT003DUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / None	210W	3-onsite	No	Windows 10 Pro64	01/16

- *For detailed platform specifications, please see ThinkCentre M700 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5" bayx1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): one PCIe 3.0 x16, two PCIe 2.0 x1

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700 SFF (10GT) - TopSeller - III

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GT003EUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	USB / None	210W	3-onsite	No	Windows 10 Pro64	01/16
10GT002WUS	i5-6400	8GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT0036US	i5-6400	8GBx1	256GB SSD opal	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT002KUS	i7-6700	8GBx1	192GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	01/16
10GT004GUS	i5-6500	8GBx1	120GB SSD	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	03/16
10GT004HUS	i5-6500	8GBx1	500GB 7200 rpm 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	USB / USB	210W	3-onsite	No	Win7 P64 DG Win10	03/16

- *For detailed platform specifications, please see ThinkCentre M700 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5" bayx1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): one PCIe 3.0 x16, two PCIe 2.0 x1

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700 Tower
with optional dust filter



ThinkCentre M700 Tower



ThinkCentre M700 Tower



ThinkCentre M700 Tower



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ThinkCentre M700 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors,

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, supports two independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse); additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

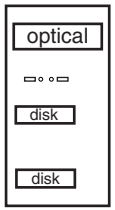
Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (20L), black color, metal case
- *(WxDxH)* 6.3" X 15.5" X 15.7"; 160mm X 394.5mm X 398mm
- 19.8 lb (9.0 kg)
- Optional handle
- Optional dust filter

Bay 1: 5.25", 1.6" high, access, std optical / opt front access HDD
Bay 2: 3.5", 1" high, no access, std disk
Bay 3: 3.5", 1" high, no access, opt disk
Bay 4: N/A, N/A, external, opt reader
Slot 1: half-length, full-height, PCIe 3.0 x16
Slot 2: half-length, full-height, PCIe 2.0 x1
Slot 3: half-length, full-height, PCIe 2.0 x1



Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*Need 85% PSU and Windows OS); ErP Lot 3; GREENGUARD ; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M700 Tower (10GR) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Storage	Optical	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GR001YUS	i5-6400	8GBx1	500GB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001NUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 510	None	None	None	None	Handle	None	None	USB / None	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0028US	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR002AUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	3165 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR002BUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 510	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0025US	i5-6400	8GBx1	1TB 7200 rpm 3.5	DVD±RW	8260 ac	None	GT 720 1GB	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR002CUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Windows 10 Pro64	01/16
10GR0021US	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0024US	i5-6400	8GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0023US	i5-6400	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0020US	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0029US	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR002EUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Windows 10 Pro64	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors,

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (20L), black color, metal case
- *(WxDxH)* 6.3" X 15.5" X 15.7"; 160mm X 394.5mm X 398mm
- 19.8 lb (9.0 kg)
- Optional handle
- Optional dust filter

Bays: 5.25" ODD bay x1, 3.5" HDD bay x2, MCR bay x1
Slots: one PCIe 3.0 x16, two PCIe 2.0 x1

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700 Tower (10GR) - TopSeller - II

Type-model	Processor	Memory	Storage	Optical	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GR001WUS	i7-6700	8GBx1	128GB SSD	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001SUS	i7-6700	8GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001MUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / None	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001VUS	i7-6700	8GBx1	120GB SSD	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001QUS	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / None	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001PUS	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / None	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001XUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001TUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	8260 ac	None	GT 720 1GB	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR002DUS	G4400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	3165 ac	None	Intel HD 510	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Windows 10 Pro64	01/16
10GR0022US	i5-6400	8GBx1	192GB SSD	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0026US	i5-6400	8GBx1	120GB SSD	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR0027US	i5-6400	8GBx1	256GB SSD opal	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001RUS	i7-6700	8GBx1	256GB SSD opal	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16

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Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

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Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
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Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

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Three onboard SATA 6.0Gb/s connectors,

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Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (20L), black color, metal case
- *(WxDxH)* 6.3" X 15.5" X 15.7"; 160mm X 394.5mm X 398mm
- 19.8 lb (9.0 kg)
- Optional handle
- Optional dust filter

Bays: 5.25" ODD bay x1, 3.5" HDD bay x2, MCR bay x1
Slots: one PCIe 3.0 x16, two PCIe 2.0 x1

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700 Tower (10GR) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Storage	Optical	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	Dust filter	Keyboard/ Mouse	Power Supply	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10GR001UUS	i7-6700	8GBx1	1TB 7200 rpm 3.5	DVD±RW	None	None	Intel HD 530	None	None	None	None	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001H++	i5-6400	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Media	Intel HD 530	None	None	Parallel	Switch	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001J++	i3-6100	4GBx1	192GB SSD	DVD±RW	None	Media	Intel HD 530	None	None	Parallel	Switch	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001K++	i3-6100	4GBx1	500GB 7200 rpm 3.5	DVD±RW	None	Media	Intel HD 530	None	None	Parallel	Switch	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16
10GR001L++	i5-6400	8GBx1	192GB SSD	DVD±RW	None	Media	Intel HD 530	None	None	Parallel	Switch	Handle	None	None	USB / USB	250W	3-onsite	No	Win7 P64 DG Win10	01/16

- *For detailed platform specifications, please see ThinkCentre M700 Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Three onboard SATA 6.0Gb/s connectors,

Media reader

Optional 9-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel H110 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Two USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (20L), black color, metal case
- *(WxDxH)* 6.3" X 15.5" X 15.7"; 160mm X 394.5mm X 398mm
- 19.8 lb (9.0 kg)
- Optional handle
- Optional dust filter

Bays: 5.25" ODD bay x1, 3.5" HDD bay x2, MCR bay x1
Slots: one PCIe 3.0 x16, two PCIe 2.0 x1

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 32/64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre



ThinkCentre M73z with Frame Stand
and optional wireless keyboard and mouse



ThinkCentre M73z with Monitor Stand
and optional wireless keyboard and mouse



ThinkCentre M73z with Frame Stand
with optional PS/2 and Serial ports



ThinkCentre M73z with Monitor Stand
with optional PS/2 and Serial ports



ThinkCentre M73z with Frame Stand
with optional wireless keyboard and mouse



ThinkCentre M73z with Monitor Stand
with optional wireless keyboard and mouse

ThinkCentre M73z (10BC) - TopSeller (1-year Onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0005US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000HUS	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BC) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0001US	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BC0002US	i7-4770S	4GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0003US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0004US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0006US	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0007US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0008US	i5-4570S	4GBx1 1600MHz	720p	180G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0009US	i5-4570S	4GBx1 1600MHz	720p	128G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BC) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000BUS	i5-4670S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000CUS	i7-4770S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000DUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000EUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000FUS	i3-4130	4GBx1	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000GUS	G3220	2GBx1	720p	500G 7200	Intel HD	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000QUS	i5-4570S	4GBx1	720p	500G 7200	HD 4600	N2230	Media	None	None	None	USB	None	Win7 Pro64 DG	11/12/13
10BC000YUS	G3220	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0010US	i3-4130	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0011US	i5-4570S	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0014US	G1820	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	03/04/14

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced September 24 or November 12, 2013 or January 21 or March 4, 2014

(MDST1-2) March 2014

ThinkCentre M73z (10BC) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC001DUS	i3-4150	8GBx1	720p	256G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001WUS	i7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001RUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001EUS	i3-4150	4GBx1	720p	1TB 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001GUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001NUS	i5-4590S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001SUS	i7-4790S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001JUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001VUS	i7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001UUS	i7-4790S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001HUS	i3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001TUS	i7-4790S	8GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001CUS	i3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001MUS	i5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001LUS	i5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001FUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001BUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001KUS	i5-4590S	4GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001YUS	i5-4590S	4GBx1	None	500G 7200	HD 4600	None	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	02/03/15

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Max resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* (WxDxH)19.9" X 3.56" X 15.9"; 506mm X 90.5mm X 404.75mm 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* (WxDxH)19.9" X 9.83" X 16.7"; 506mm X 249.8mm X 423.9mm 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BC) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC002CUS	G3240	2GBx1	720p	500G 7200	Intel HD	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15
10BC002EUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15
10BC002DUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	03/24/15
10BC002FUS	G3240	4GBx1	720p	500G 7200	Intel HD	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win 10	10/27/15
10BC002JUS	i7-4790S	8GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win 10	10/27/15
10BC002HUS	i5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win 10	10/27/15
10BC002GUS	i3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win 10	10/27/15

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Max resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* (WxDxH)19.9" X 3.56" X 15.9"; 506mm X 90.5mm X 404.75mm 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* (WxDxH)19.9" X 9.83" X 16.7"; 506mm X 249.8mm X 423.9mm 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M73z (10BC) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000AUS	i5-4570S	4GBx1 1600MHz	720p	500GB 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win8 Pro64	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M73z (10BC) - TopSeller (Win10)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC002VUS	i5-4590S	4GBx1 1600MHz	720p	250G 7200	HD 4600	N7260	Media	None	None	Monitor	USB	No	Win10 Pro64	10/20/15
10BC002WUS	i3-4150	4GBx1 1600MHz	720p	500G 7200	HD 4400	N7260	Media	None	None	Monitor	USB	No	Win10 Pro64	10/20/15

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	• Business black color • Carry handle in rear • Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 25°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: -5° to 25°; Lift: 110mm; Swivel: +/-45°;
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 10 Pro 64-bit

Preloaded applications (only some listed)

- Lenovo Companion
- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre M700z with
Full Function monitor stand



ThinkCentre M700z with
Full Function monitor stand



ThinkCentre M700z with
Full Function monitor stand



ThinkCentre M700z with
Full Function monitor stand



ThinkCentre M700z with
Full Function monitor stand



ThinkCentre M700z with
Full Function monitor stand

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ThinkCentre M700z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900T	2 / 2	2.6 G	2 MB	DDR4-2133	HD 510
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

20" (508mm) **HD+ (1600x900) TFT color**, wide viewing angle 178° (Horizontal), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

Light sensor

None

Multi-touch

None

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	19.8 X 1.5 X 13.5 (inch); 503 X 38 X 344 (mm)	10.2 / 4.62	N/A
With Basic Monitor stand:	19.8 X 9.6 X 16.2 (inch); 503 X 245 X 412 (mm)	14.6 / 6.6	Tilt: 45° back, -5° forward
With Full Function Monitor stand:	19.8 X 9.6 X 15.7 (inch); 503 X 245 X 400 (mm)	14.9 / 6.77	Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Power supply

120 watts adapter, autosensing, 89% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

EPEAT™ Gold rating; ENERGY STAR® 6.1; TCO Certified; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M700z (10EY) - TopSeller

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10EY0006US	i3-6100T	8GBx1	20" HD+	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY0007US	i3-6100T	4GBx1	20" HD+	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY0008US	i5-6400T	4GBx1	20" HD+	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY0009US	G3900T	4GBx1	20" HD+	No	Intel HD 510	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10EY000AUS	i7-6700T	8GBx1	20" HD+	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000BUS	i3-6100T	8GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000CUS	i7-6700T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10EY000DUS	i7-6700T	4GBx1	20" HD+	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000EUS	i3-6100T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000FUS	i5-6400T	8GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000GUS	i7-6700T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000HUS	G4400T	4GBx1	20" HD+	No	Intel HD 510	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	12/15

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- *For detailed platform specifications, please see ThinkCentre M700z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900T	2 / 2	2.6 G	2 MB	DDR4-2133	HD 510
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

20" (508mm) **HD+ (1600x900) TFT color**, wide viewing angle 178° (Horizontal), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

Light sensor

None

Multi-touch

None

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

120 watts adapter, autosensing, 89% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M700z (10EY) - TopSeller - II

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10EY000JUS	i5-6400T	8GBx1	20" HD+	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000KUS	G3900T	4GBx1	20" HD+	No	Intel HD 510	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000LUS	i5-6400T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000MUS	i3-6100T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10EY000NUS	i7-6700T	8GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EY000PUS	i5-6400T	4GBx1	20" HD+	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10EY000QUS	G4400T	4GBx1	20" HD+	No	Intel HD 510	None	720p	500GB 7200	DVD±RW	3165 ac	Media	None	None	Monitor	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- *For detailed platform specifications, please see ThinkCentre M700z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900T	2 / 2	2.6 G	2 MB	DDR4-2133	HD 510
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

20" (508mm) **HD+ (1600x900) TFT color**, wide viewing angle 178° (Horizontal), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

Light sensor

None

Multi-touch

None

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

120 watts adapter, autosensing, 89% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M78 Small and Tower



Lenovo ThinkCentre M78
Small and Tower



Lenovo ThinkCentre M78 Tower
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Small



Lenovo ThinkCentre M78 Small
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Tower



Lenovo ThinkCentre M78 Tower

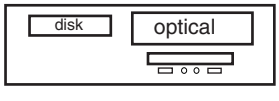
ThinkCentre M78 Small (10BU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BU0000US	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0001US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0002US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0003US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0004US	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0005US	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0006US	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0007US	4x3	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0008US	4x3	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/22/13
10BU0009US	4x3	A6-6400B	2GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	None	Win7 Pro64 (DG)	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013, October 22, 2013, or December 10, 2013

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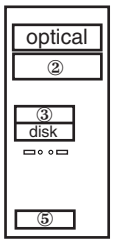
ThinkCentre M78 Tower (10BR) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BR0000US	4x5	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0001US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0002US	4x5	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0004US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0005US	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0006US	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0007US	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0008US	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR000AUS	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8.1	04/08/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or April 8, 2014

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ThinkCentre M78 Accessories

Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 5100/4865/2113/2114 support Low Profile:		
NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*
Tower 2111/1766/1562/1565 support 75 watts max:		
NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre M79
SFF and Tower



ThinkCentre M79 SFF with
optional monitor



ThinkCentre M79 Tower with
optional monitor



ThinkCentre M79 SFF
front and back view



ThinkCentre M79 Tower
front and back view



ThinkCentre M79 SFF
inside view

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ThinkCentre M79 SFF Platform Specifications

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz
Some: **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Some: **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Administrator password
- Hard disk password
- Boot sequence control
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on password
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

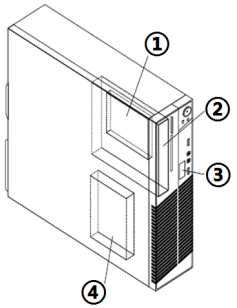
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay 1: N/A, N/A, internal, opt SSD
Bay 2: 5.25", 1.6" high, external, std disk
Bay 3: N/A, N/A, external, opt reader
Bay 4: 3.5", 1" high, internal, std disk
*bay only available on models with HDD/SSD/reader installed
Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)
Slot 2: Low Profile, PCIe 2.0 x1
Slot 2: Low Profile, PCIe 2.0 x1
Slot 4: Low Profile, 32-bit PCI 2.3



Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 100-240V (50-60Hz)
Some: 240 watts, autosensing, 100-240V (50-60Hz)
Some: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Companion
- Lenovo SHAREit
- Lenovo REACHit
- McAfee® LiveSafe™(30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)
- PC Device Stage

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

(ALSK1-SFF) September 2015 © Lenovo

ThinkCentre M79 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz
Some: **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W;
Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;
Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Some: **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;
Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Administrator password
- Hard disk password
- Boot sequence control
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on password
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

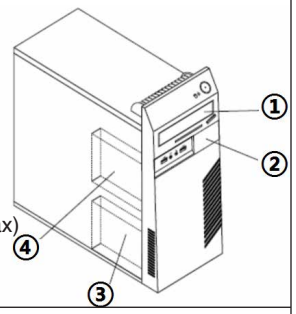
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: N/A, N/A, access, opt reader
Bay 3: 3.5", 1" high, no access, std disk
Bay 4: 3.5", 1" high, no access, opt disk
*bay only available on models with HDD/SSD/reader installed
Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max)
Slot 2: half-length, full-height, PCIe 2.0 x1
Slot 3: half-length, full-height, PCIe 2.0 x1
Slot 4: half-length, full-height, 32-bit PCI 2.3



Power supply

Some: 180 watts, autosensing, 100-240V (50-60Hz)
Some: 280 watts, autosensing, 100-240V (50-60Hz)
Some: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 10 Pro 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Companion
- Lenovo SHAREit
- Lenovo REACHit
- McAfee® LiveSafe™(30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- PowerDVD Create (DVD±RW)
- PC Device Stage

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

(ALSK1-TW) September 2015 © Lenovo

ThinkCentre M79 SFF (10CV) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CV0000US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0002US	A8 7600B	4Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0003US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	10/14
10CV000VUS	A6 7400B	4Gx1	Radeon R5	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000WUS	A8 7600B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	USB	None	None	Cable	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000UUS	A10 7800B	8Gx1	Radeon R7	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000TUS	A10 7800B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000XUS	A8 7600B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	Stand	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/15

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor — AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory — 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk
Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical
Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA — SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader — Optional 7-in-1 single slot media card reader

Graphics — **AMD Radeon™ Graphics** in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable — Optional DisplayPort to DVI-D monitor cable

Chipset — **AMD A78 Chipset**

Front ports — Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports — Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports — Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394 — Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support — High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]
Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™ — *Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet — One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem — None

Manageability — Enhanced Manageability with DASH 1.1

Security chip — Trusted Platform Module, TCG 1.2-compliant

Security features
- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard
USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand — Optional system floor stand for vertical orientation

Power supply
180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]
Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment — ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories — For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 SFF (10JB) - TopSeller

Type-model	Processor	Memory	Graphics	Monitor cable	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10JB0009US	A4 7300B	4Gx1	HD 8470D	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win10 Pro64	3-onsite	No	09/15
10JB000AUS	A6 7400B	4Gx1	Radeon R5	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win10 Pro64	3-onsite	No	09/15
10JB000DUS	A10 7800B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win10 Pro64	3-onsite	No	09/15
10JB000FUS	A8 7600B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win10 Pro64	3-onsite	No	09/15

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand

Optional system floor stand for vertical orientation

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows 10 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 SFF (10JB) - TopSeller - II

Type-model	Processor	Mem-ory	Graphics	Monitor cable	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10JB0005US	A10 8750B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	Switch	Cable	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB0006US	A4 8350B	4Gx1	Radeon R5	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	2nd DP	None	None	Switch	Cable	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB0007US	A8 8650B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	2nd DP	None	1394	Switch	Cable	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB0008US	A6 8550B	4Gx1	Radeon R5	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	2nd DP	None	None	Switch	Cable	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB000BUS	A4 7300B	4Gx1	HD 8470D	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB000CUS	A6 7400B	4Gx1	Radeon R5	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB000EUS	A10 7800B	4Gx1	Radeon R7	DP to DVI	2x500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB000GUS	A8 7600B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10JB000HUS	A10 7800B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	12/15
10JB000KUS	A4 7300B	4Gx1	HD 8470D	None	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	12/15
10JB000LUS	A6 7400B	4Gx1	Radeon R5	None	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	12/15
10JB000JUS	A8 7600B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win10	3-onsite	No	12/15

- *For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
PRO A4-8350B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
PRO A6-8550B	2	4.0 / 3.7	1MB	DDR3-2133	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
PRO A8-8650B	4	3.9 / 3.2	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series
PRO A10-8750B	4	4.0 / 3.6	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support (only applicable on dual SSD models)

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration

Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1
*SSD bay only available on models with 2nd SSD installed
Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3

Floor Stand

Optional system floor stand for vertical orientation

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
240W: 240 watts, autosensing, 100-240V (50-60Hz)
240W ES: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows 10 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10CN) - TopSeller

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CN0000US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0002US	A8 7600B	4Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0003US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN000WUS	A10 7800B	8Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000VUS	A10 7800B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000XUS	A6 7400B	4Gx1	Radeon R5	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CN000YUS	A8 7600B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	Media	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/15

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10J7) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Monitor Cable	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10J7000DUS	A4 7300B	4Gx1	HD 8470D	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win10 Pro64	3-onsite	No	09/15
10J7000EUS	A8 7600B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win10 Pro64	3-onsite	No	09/15
10J7000FUS	A6 7400B	4Gx1	Radeon R5	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win10 Pro64	3-onsite	No	09/15
10J7000HUS	A10 7800B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win10 Pro64	3-onsite	No	09/15

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows 10 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M79 Tower (10J7) - TopSeller - II

Type-model	Processor	Memory	Graphics	Monitor Cable	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10J70009US	A4 8350B	4Gx1	Radeon R5	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	Switch	Cable	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000AUS	A8 8650B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	Switch	Cable	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000BUS	A10 8750B	4Gx1	Radeon R7	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	Switch	Cable	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000CUS	A6 8550B	4Gx1	Radeon R5	None	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	Switch	Cable	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000GUS	A4 7300B	4Gx1	HD 8470D	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000JUS	A6 7400B	4Gx1	Radeon R5	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000KUS	A10 7800B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	Cable	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15
10J7000LUS	A8 7600B	4Gx1	Radeon R7	DP to DVI	500GB 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	280W ES	Win7 P64 DG Win10	3-onsite	No	10/15

- *For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*

Processor

AMD A4, A6, A8, or A10 series APUs

APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics
A4 PRO-7300B	2	4.0 / 3.8	1MB	DDR3-1600	HD 8470D
PRO A4-8350B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series
PRO A6-8550B	2	4.0 / 3.7	1MB	DDR3-2133	Radeon R5 Series
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series
PRO A8-8650B	4	3.9 / 3.2	4MB	DDR3-2133	Radeon R7 Series
A10 PRO-7800B	4	3.9 / 3.5	4MB	DDR3-2133	Radeon R7 Series
PRO A10-8750B	4	4.0 / 3.6	4MB	DDR3-2133	Radeon R7 Series

Memory

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

Media reader

Optional 7-in-1 single slot media card reader

Graphics

AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
Some: **AMD Radeon HD 8570**, DirectX 11, one VGA, one HDMI, 40W;
Some: **NVIDIA® Geforce® GT 620**, DirectX 11, one VGA, one DisplayPort, 30W;
Some: **AMD Radeon™ HD 7450**, DirectX 11, one DVI-I one DisplayPort, 25W;

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

AMD A78 FCH

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

IEEE 1394

Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

Audio support

High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

Modem

None

Manageability

Enhanced Manageability with DASH 1.1

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration

Bay: 5.25" x1, 3.5" x2, MCR Bay x1
Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3

Power supply

180W: 180 watts, autosensing, 100-240V (50-60Hz)
280W: 280 watts, autosensing, 100-240V (50-60Hz)
280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows 10 Pro 64-bit

Environment

ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);
EPEAT™ Gold rating (Need 85% PSU and Windows OS);
GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

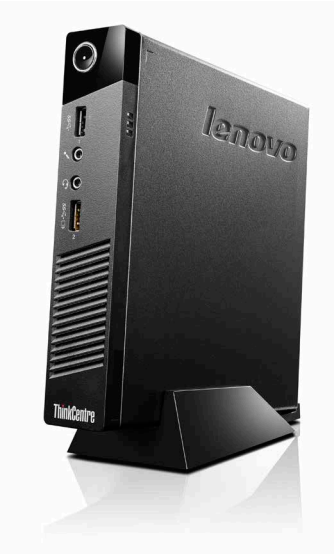
For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M83 Tiny with optional floor stand



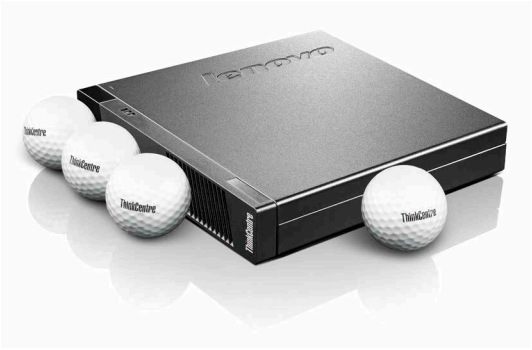
ThinkCentre M83 Tiny with optional VESA mount kit



ThinkCentre M83 Tiny with optional optical box



ThinkCentre M83 Tiny with optional I/O box



ThinkCentre M83 Tiny

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ThinkCentre M83 Tiny Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports
Rear ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 32/64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- PC Device Stage
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SHAREit
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- PC Device Stage
- Lenovo Companion
- Lenovo SHAREit
- Lenovo Reach
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- Norton™ Studio
- Pokki

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Tiny (10E9) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E9000NUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	USB	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000PUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000QUS	i3-4130T	Intel HD 4400	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000RUS	i3-4130T	Intel HD 4400	8GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000SUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000TUS	i5-4590T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000UUS	i5-4590T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000VUS	i7-4785T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000WUS	i7-4785T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000XUS	i7-4785T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000YUS	i7-4785T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E90010US	i7-4785T	Intel HD 4600	4GBx1	180GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14

- *For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.)
GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Tiny (10E9) - TopSeller II

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E9001GUS	i3-4130T	Intel HD 4400	4GBx1	120GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	05/15
10E9001HUS	i5-4590T	Intel HD 4600	4GBx1	120GB SSD	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	05/15
10E9001JUS	i7-4785T	Intel HD 4600	4GBx1	192GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	05/15
10E9001KUS	i5-4590T	Intel HD 4600	4+2GB	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	05/15
10E9001SUS	i5-4590T	Intel HD 4600	8GBx1	128GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	11/15

- *For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600

Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz DDR3 memory controller

Disk

Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
Some: 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

Optical

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connector on planar

Media reader

None

Graphics

Intel HD Graphics or **Intel HD Graphics 4400/4600,** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

DP cable

Optional DisplayPort to DVI-D monitor cable

Chipset

Intel Q85 Chipset

Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2

Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional *Chassis intrusion switch*

Keyboard

USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Finger: Lenovo USB Fingerprint Keyboard (USB connector)
2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

USB: Enhanced Optical USB Mouse, black, Lenovo logo
2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), business black color; metal case

M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: **3-years**, **limited onsite service** / service upgrades available
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

Environment

ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.)
GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M83 Small Pro, Mini Tower



Lenovo ThinkCentre M83 Mini Tower
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Mini Tower
with optional WLAN and graphic card



Lenovo ThinkCentre M83 Small Pro
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models



Lenovo ThinkCentre M83 Small Pro
(inside view)



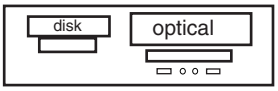
Optional 2.5" bay on
Lenovo ThinkCentre M83 Small Pro
* Come with optional 2.5" 2nd HDD

ThinkCentre M83 SFF Pro (10AM) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	2nd disk	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM0002US	3x4	i5-4670	4GBx1	1TB 7200		None		HD 4600	USB	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0003US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0004US	3x4	i7-4770	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0005US	3x4	i5-4570	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0006US	3x4	i7-4770	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0007US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM000AUS	3x4	i7-4770	4GBx1	1TB 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000BUS	3x4	i5-4570	4GBx1	128G SSD	1TB	None	Media	HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM0009US	3x4	i3-4130	4GBx1	500G 7200		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000CUS	3x4	i3-4130	4GBx1	500G Hybrid		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
2nd disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013 or August 20, 2013

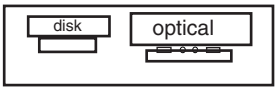
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ThinkCentre M83 SFF Pro (10AM) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM000JUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000KUS	3x4	i5-4570	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000LUS	3x4	i7-4770	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000MUS	3x4	i7-4770	8GBx1	1TB Hybrid	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000NUS	3x4	G3220	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000PUS	3x4	i3-4130	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000QUS	3x4	i5-4570	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000RUS	3x4	i5-4670	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000SUS	3x4	i7-4770	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000TUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	04/01/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

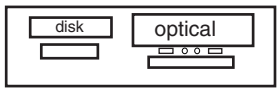
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ThinkCentre M83 SFF Pro (10AM) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AM000VUS	3x4	i5-4590	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/10/15
10AM000YUS	3x4	i5-4690	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/10/15
10AM000UUS	3x4	i7-4790	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/10/15
10AM000WUS	3x4	i3-4150	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/10/15
10AM000XUS	3x4	i5-4590	4GBx1	180G SSD opal	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/10/15
10AM0010US	3x4	i5-4690	4GBx1	192G SSD	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	05/05/15
10AM0013US	3x4	i7-4790	8GBx1	256G SSD opal	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	11/24/15
10AM0014US	3x4	i5-4590	8GBx1	128G SSD	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG Win8.1	01/18/16

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4690 Processor** (**4 cores / 4 threads**, 3.5GHz, 6MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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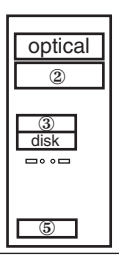
ThinkCentre M83 Mini Tower (10AL) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AL0008US	3x5	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL0009US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000AUS	3x5	i7-4770	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000BUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000CUS	3x5	i5-4670	4GBx2	1TB 7200	DVD±RW	None	None	HD 4600	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000DUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 8470	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000EUS	3x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	GT 620	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000FUS	3x5	i7-4770	4GBx2	500GB 7200	DVD±RW	None	None	HD 8570	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000GUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	08/20/13

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013 or August 20, 2013

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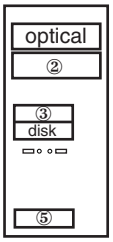
ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[6]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/dd/yy)*
10AL000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000RUS	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000SUS	3x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000TUS	3x5	i7-4770	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AL000VUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4, 2014 or February 25, 2014

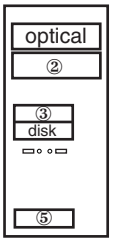
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ThinkCentre M83 Mini Tower (10AL) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[6]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date *(mm/yy)*
10AL0014US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0017US	3x5	G3240	4GBx1	500GB 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL000XUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0013US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL000YUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0016US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0012US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0010US	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0015US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG Win8.1	10/14
10AL0011US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	10/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G3240 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M800 SFF
optional monitor



ThinkCentre M800 SFF



ThinkCentre M800 SFF
top view



ThinkCentre M800 SFF
bottom view



ThinkCentre M800 SFF
front and back view



ThinkCentre M800 SFF
left and right view

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ThinkCentre M800 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

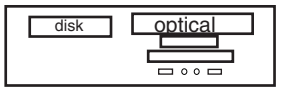
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter



Bay 1: N/A, 9.5mm high, external, std optical
Bay 2: 3.5", 1" high, internal, std disk
Bay 3: 2.5", N/A, internal, opt 2nd 2.5" disk (optional bay)
Bay 4: N/A, N/A, external, opt reader
Slot 1: Low Profile, PCI Express 3.0 x16 (45w max)
Slot 2: Low Profile, PCIe 3.0 x1
Slot 3: Low Profile, PCIe 3.0 x16 (x4 elec, 45w max)
Slot 4: Low Profile, optional 32-bit PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*(*Need 85% PSU and Windows OS);
ErP Lot 3; GREENGUARD®; RoHS-compliant; TUV Green Mark

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M800 SFF (10FY) - TopSeller

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FY0004US	i7-6700	8GBx1	192GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY0005US	i5-6500	4GBx1	192GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY0006US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY0007US	i7-6700	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY0008US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	GT 720 1GB	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY0009US	i5-6500	4GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY000AUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	PS2	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FY000CUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FY000DUS	i5-6400	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FY000EUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FY000FUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15

- *For detailed platform specifications, please see ThinkCentre M800 SFF Platform Specifications sheet*

Processor — Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory — 64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk — *Some:* Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical — *Some:* DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA — Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port

Media reader — Optional 7-in-1 media reader

Graphics — **Intel HD Graphics 510/530** in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable — Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset — **Intel Q150 Chipset**

Front ports — Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports — Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports — Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394 — None

Audio support — High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13] — *Some:* 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™ — *Some:* Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet — Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability — Intel Standard Manageability

Security chip — Trusted Platform Module, TCG 1.2-compliant

Security features
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard — *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse — *Some:* Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical
- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand — Optional system floor stand for vertical orientation

Power supply — 210 watts, autosensing, 85% PSU

Limited warranty[3] — *Some:* **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload — *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800 SFF (10FY) - TopSeller - II

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FY001LUS	i3-6100	4GBx1	128GB SSD	DVD±RW	2.5" Bay	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001CUS	i7-6700	8GBx1	180GB SSD opal	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001AUS	i7-6700	8GBx1	128GB SSD	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0017US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001NUS	i3-6100	4GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0013US	i5-6400	4GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0015US	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001MUS	i3-6100	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0018US	i5-6400	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0012US	i3-6100	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001BUS	i5-6400	8GBx1	128GB SSD	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY000QUS	i3-6100	4GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15

- *For detailed platform specifications, please see ThinkCentre M800 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800 SFF (10FY) - TopSeller - III

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FY0014US	i5-6400	8GBx1	180GB SSD opal	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0016US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001JUS	i7-6700	8GBx2	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001GUS	i7-6700	8GBx2	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001KUS	i3-6100	4GBx1	128GB SSD	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY001EUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001PUS	i3-6100	4GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001HUS	i5-6400	8GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001FUS	i5-6400	4GBx1	500GB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FY001DUS	i5-6400	8GBx1	256GB SSD opal	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FY0019US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5" Bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15

- *For detailed platform specifications, please see ThinkCentre M800 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800 Mini Tower
with optional monitor



ThinkCentre M800 Mini Tower



ThinkCentre M800 Mini Tower
with optional front access HDD



ThinkCentre M800 Mini Tower
with optional adapters



ThinkCentre M800 Mini Tower
back view



ThinkCentre M800 Mini Tower
left view

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ThinkCentre M800 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

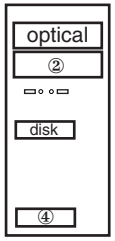
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: 5.25", 1.6" high, access, opt media reader / front access HDD
Bay 3: 3.5", 1" high, no access, std disk
Bay 4: 3.5", 1" high, no access, opt disk
Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)
Slot 2: half-length, full-height, PCIe 3.0 x1
Slot 3: half-length, full-height, PCIe 3.0 x16 (x4 elec, 75w max)
Slot 4: half-length, full-height, optional 32-bit PCI 2.3 (via M.2 to PCI adaptor)



Power supply

250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*(*Need 85% PSU and Windows OS);
ErP Lot 3; GREENGUARD®; RoHS-compliant; TUV Green Mark

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M800 Mini Tower (10FW) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Proces-sor	Memory	Storage	Optical	2nd 3.5" HDD tray	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FW0002US	i7-6700	4GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW0003US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	K420 2GB	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW0004US	i7-6700	8GBx1	120GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW0005US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW0006US	i7-6700	8GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW0007US	i5-6500	4GBx1	120GB SSD	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FW000WUS	i5-6400	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FW000XUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	GT 720 2GB	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FW000YUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15
10FW0010US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	11/15

- *For detailed platform specifications, please see ThinkCentre M800 Mini Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
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- Boot without keyboard and mouse
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- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 5.25" bay x2 (opt media reader / front access HDD occupy 2nd 5.25" bay), 3.5" bay x2 (2nd 3.5" disk tray is optional)
Slots (full-height): two PCIe 3.0 x16 (one is x4 elec, 75w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Power supply

250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800 Mini Tower (10FW) - TopSeller - II

Type-model	Proces-sor	Memory	Storage	Optical	2nd 3.5"	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FW001TUS	i3-6100	4GBx1	500GB 7200	DVD±RW	2nd 3.5"	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001XUS	i3-6100	8GBx1	1TB 7200	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FW001VUS	i3-6100	4GBx1	128GB SSD	DVD±RW	2nd 3.5"	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001NUS	i7-6700	8GBx1	1TB 7200	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001PUS	i5-6400	8GBx1	500GB 7200	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001SUS	i5-6400	4GBx1	500GB 7200	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001YUS	i3-6100	4GBx1	128GB SSD	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FW001UUS	i3-6100	4GBx1	500GB 7200	DVD±RW	2nd 3.5"	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FW001RUS	i7-6700	8GBx1	1TB 7200	DVD±RW	2nd 3.5"	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001QUS	i7-6700	8GBx2	1TB 7200	DVD±RW	2nd 3.5"	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Windows 10 Pro64	12/15
10FW001WUS	i3-6100	4GBx1	500GB 7200	DVD±RW	2nd 3.5"	Intel 8260 ac	None	Intel HD 530	None	None	None	None	Handle	None	None	None	No	USB	3-onsite	No	Win7 P64 DG Win10	12/15

- *For detailed platform specifications, please see ThinkCentre M800 Mini Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q150 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Four USB 3.0, two USB 2.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Standard Manageability

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 5.25" bay x2 (opt media reader / front access HDD occupy 2nd 5.25" bay), 3.5" bay x2 (2nd 3.5" disk tray is optional)
Slots (full-height): two PCIe 3.0 x16 (one is x4 elec, 75w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Power supply

250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800z with
basic monitor stand



ThinkCentre M800z with
basic monitor stand



ThinkCentre M800z with
basic monitor stand



ThinkCentre M800z with
UltraFlex II stand



ThinkCentre M800z with
UltraFlex II stand



ThinkCentre M800z with
multitouch

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ThinkCentre M800z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	21.1 X 1.8 X 14.3 (inch); 535 X 45 X 363 (mm)	(Touch) 14.6 / 6.6 (Non-touch) 12.8 / 5.8	N/A
With Basic Monitor stand:	21.1 X 9.6 X 17.0 (inch); 535 X 245 X 431 (mm)	(Non-touch) 17.0 / 7.7	Tilt: 45° back, -5° forward
With UltraFlex II stand:	21.1X 10.0 X 19.3 (inch); 535 X 253 X 489 (mm)	(Touch) 20.3 / 9.2 (Non-touch) 18.3 / 8.3	Tilt: 61° back, -5° forward; Lift: 160mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

EPEAT™ Gold rating; ENERGY STAR® 6.1; TCO Certified; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M800z (10EU) - TopSeller

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10EU001PUS	i5-6400	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	Basic Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10EU001QUS	i7-6700	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU001RUS	i7-6700	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	Basic Monitor	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10EU001SUS	i5-6400	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10EU001TUS	i5-6400	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU001UUS	i7-6700	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10EU001VUS	i7-6700	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU001WUS	i5-6400	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU002WUS	i7-6700	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU002YUS	i5-6400	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU0033US	i5-6400	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10EU0036US	i7-6700	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15

- *For detailed platform specifications, please see ThinkCentre M800z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800z (10EU) - TopSeller - II

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10EU002XUS	i3-6100	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	256GB SSD	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EU0030US	G4400	4GBx1	21.5" FHD	No	Intel HD 510	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EU0031US	i3-6100	8GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EU0034US	i3-6100	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EU0035US	i3-6100	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	120GB SSD	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10EU0037US	i3-6100	4GBx1	21.5" FHD	No	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10EU0032US	G3900	4GBx1	21.5" FHD	No	Intel HD 510	None	720p	500GB 7200	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	None	3-year, onsite	No	Win7 Pro64 DG Win10	04/16

- *For detailed platform specifications, please see ThinkCentre M800z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800z (10ET) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10ET0002US	i5-6500	4GBx1	21.5" FHD	Touch	Intel HD 530	DP to HDMI	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET0003US	i7-6700	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET0004US	i5-6500	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10ET0005US	i7-6700	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET0007US	i5-6500	8GBx1	21.5" FHD	Touch	Intel HD 530	DP to HDMI	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET0009US	i5-6400	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10ET000AUS	i5-6400	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET000CUS	i5-6400	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET001BUS	i7-6700	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	256GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET001EUS	i5-6400	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	256GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET001HUS	i7-6700	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 7200	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	11/15
10ET001JUS	i7-6700	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	120GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15
10ET001KUS	i5-6400	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	120GB SSD	DVD±RW	8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	11/15

- *For detailed platform specifications, please see ThinkCentre M800z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M800z (10ET) - TopSeller - II

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10ET001AUS	G4400	4GBx1	21.5" FHD	Touch	Intel HD 510	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10ET001CUS	i3-6100	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	120GB SSD	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10ET001DUS	i3-6100	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10ET001FUS	i3-6100	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Windows 10 Pro 64	12/15
10ET001GUS	G3900	4GBx1	21.5" FHD	Touch	Intel HD 510	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10ET001LUS	i3-6100	8GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	256GB SSD	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15
10ET001MUS	i3-6100	4GBx1	21.5" FHD	Touch	Intel HD 530	None	720p	500GB 5400	DVD±RW	Intel 8260 ac	Media	None	None	UltraFlex II	USB	No	3-onsite	No	Win7 Pro64 DG Win10	12/15

- *For detailed platform specifications, please see ThinkCentre M800z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics
Celeron G3900	2 / 2	2.8 G	2 MB	DDR4-2133	HD 510
Pentium G4400	2 / 2	3.3 G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5 G	3 MB	DDR4-2133	HD 530
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1.0-megapixel camera, fixed focus, supports 720p, with digital microphone, LED indicator, physical switch on/off

Controls

Microphone mute, brightness up/down buttons, and power button

Chipset

Intel H110 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal stereo speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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Lenovo ThinkCentre M93/M93p Tiny
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Tiny
with optional WLAN



Lenovo ThinkCentre M93/M93p Tiny
with optional external I/O box



Lenovo ThinkCentre M93/M93p Tiny
with optional external optical box



Lenovo ThinkCentre M93/M93p Tiny
(inside view)



Lenovo ThinkCentre M93/M93p Tiny



Lenovo ThinkCentre M93/M93p Mini Tower
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Mini Tower
with optional WLAN and graphic card



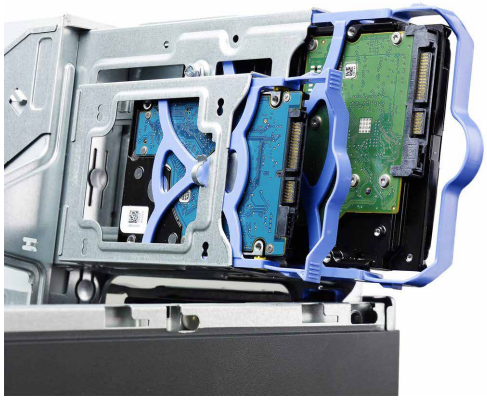
Lenovo ThinkCentre M93/M93p Small Pro
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models



Lenovo ThinkCentre M93/M93p Small Pro
(inside view)



Optional 2.5" bay on
Lenovo ThinkCentre M93/M93p Small Pro
* Come with optional 2.5" 2nd HDD

ThinkCentre M93p Tiny (10AB) - TopSeller I

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000DUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 105	2nd DP	None	None	None	USB	vPro*	Win7 Pro64 (DG)	07/02/13
10AB000EUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000FUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000GUS	i7-4765T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000HUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000JUS	i5-4570T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000KUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000QUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000RUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013

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ThinkCentre M93p Tiny (10AB) - TopSeller II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000SUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro*	Win7 Pro64 (DG)	07/02/13
10AB000TUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000UUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	None	None	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0010US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0011US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0012US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0013US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0014US	i5-4570T	4GBx1	500G 7200	I/O box	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0015US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0016US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	Serial	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB002AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	12/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013 or December 10, 2013

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ThinkCentre M93p Tiny (10AB) - TopSeller III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB002TUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro*	Win7 P64 DG Win8.1	01/14/14
10AB002VUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 bn	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002WUS	i7-4765T	8GBx1	128G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002UUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB002YUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB0030US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	7260 ac	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB003JUS	i7-4765T	8GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	06/17/14
10AB003KUS	i5-4570T	4GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	06/17/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 14 or February 25, 2014

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ThinkCentre M93p Tiny (10AB) - TopSeller IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB004AUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	vPro*	Win7 P64 DG Win8.1	10/28/14
10AB004CUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004MUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004EUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004DUS	i5-4590T	8GBx1	256G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004QUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004NUS	i7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004KUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004FUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004LUS	i7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

● Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	● Tiny (1L), business black color; metal case ● *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H ● *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H ● *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H ● *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H ● *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AB) - TopSeller V

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB004TUS	i7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	None	Mount	USB	vPro*	Win7 P64 DG Win8.1	10/28/14
10AB004RUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004SUS	i7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	HDMI	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004HUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004PUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004UUS	i7-4785T	8GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004JUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004BUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004GUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93p Tiny (10AB) - TopSeller VI

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB004XUS	i5-4570T	4+2GB	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	USB	vPro*	Win7 P64 DG Win8	05/05/15
10AB004YUS	i5-4570T	4GBx1	120G SSD	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 P64 DG Win8	05/05/15
10AB0050US	i7-4765T	8GBx1	192G SSD	DVD±RW	HD 4600	7260 ac	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	05/05/15
10AB0056US	i5-4590T	4GBx1	120G SSD	DVD±RW	HD 4600	7260 b/g/n	HDMI	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/20/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590T Processor** (**4 cores / 4 threads**, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4785T Processor** (**4 cores / 8 threads**, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, Intel vPro technology support, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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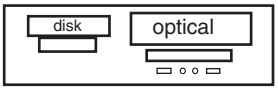
ThinkCentre M93p SFF Pro (10A9) - TopSeller - I

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000HUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	None	vPro*	Win7 Pro64 (DG)	06/18/13
10A9000JUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	HD 4600	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000KUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	GT 620	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000LUS	4x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	GT 620	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000MUS	4x4	i7-4770	4GBx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90014US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	105	GT 620	USB	Serial	Parallel	None	Stand	vPro	Win7 Pro64 (DG)	08/13/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or August 13, 2013

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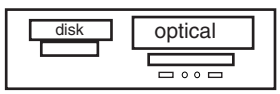
ThinkCentre M93p SFF Pro (10A9) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000NUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro*	Win7 Pro64 (DG)	06/18/13
10A9000PUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000QUS	4x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000RUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000SUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90016US	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A90017US	4x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A9002CUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	Stand	vPro	Win7 Pro64 (DG)	12/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013, October 8, 2013, or December 10, 2013

(MSS1S-4) December 2013

ThinkCentre M93p SFF Pro (10A9) - TopSeller - III

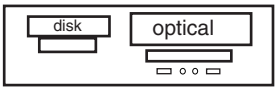
Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9002TUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro*	Win7 P64 DG Win8.1	02/04/14
10A9002UUS	4x4	i7-4770	8GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002VUS	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002WUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/11/14
10A90034US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 8570	None	None	None	Stand	vPro	Win7 P64 DG Win8.1	03/25/14
10A9003TUS	4x4	i7-4770	8GBx1	256G SSD OPAL	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	06/17/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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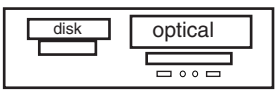
ThinkCentre M93p SFF Pro (10A9) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A90049US	4x4	i7-4790	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro*	Win7 P64 DG Win8.1	10/28/14
10A90045US	4x4	i5-4590	4GBx1	500G 7200 2.5"	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004CUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90048US	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	GT 620	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90046US	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004AUS	4x4	i5-4590	4GBx1	500G 7200 2.5"	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90047US	4x4	i7-4790	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004BUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90075US	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	Stand	vPro	Win7 P64 DG Win8.1	10/20/15
10A90076US	4x4	i5-4590	8GBx1	500G 7200 2.5"	DVD±RW	None	None	None	HD 4600	None	None	None	Stand	vPro	Win7 P64 DG Win8.1	10/20/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 2.5" or 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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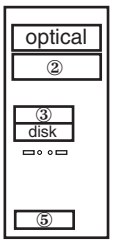
ThinkCentre M93p Mini Tower (10A7) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) OID (O)	Preload	Ann date *(mm/dd/yy)*
10A7000BUS	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro*	None	Win7 Pro64 (DG)	06/18/13
10A7000CUS	4x5	i5-4670	4Gx1	500G Hybrid	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000DUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 8570	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000EUS	4x5	i7-4770	4Gx2	500G Hybrid	DVD±RW	Media	HD 8570	None	Serial	Parallel	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000FUS	4x5	i7-4770	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000GUS	4x5	i5-4670	4Gx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000QUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	GT 620	None	None	None	None	vPro	None	Win7 Pro64 (DG)	07/09/13
10A7000SUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000TUS	4x5	i5-4570	4Gx1	128G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000UUS	4x5	i7-4770	8Gx1	180G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced June 18, 2013, July 9, 2013, or October 8, 2013

(MSS1T-3) October 2013

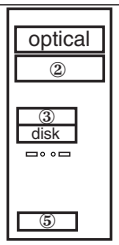
ThinkCentre M93p Mini Tower (10A7) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Proces-sor	Memory[8]	SATA disk GB rpm	SATA optical	WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) OID (O)	Preload	Ann date *(mm/yy)*
10A70028US	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro*	None	Win7 P64 DG Win8.1	02/14
10A70029US	4x5	i7-4770	8Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/14
10A7002AUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/14
10A7003CUS	4x5	i7-4770	8Gx1	256G SSD OPAL	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	06/14
10A7003UUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	GT 620	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003RUS	4x5	i5-4590	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003PUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003QUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003SUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7003TUS	4x5	i7-4790	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/14
10A7005EUS	4x5	i5-4590	8Gx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG Win8.1	10/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790 Processor** (**4 cores / 8 threads**, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]; 1920x1200 (VGA)@60Hz (Reduced Blanking) *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro
- Intel Unite (vPro models only)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M900 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor



ThinkCentre M900 Tiny with optional floor stand



ThinkCentre M900 Tiny with optional VESA mount kit



ThinkCentre M900 Tiny with optional VGA port



ThinkCentre M900 Tiny with optional I/O box



ThinkCentre M900 Tiny with TIO

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ThinkCentre M900 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510	No
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530	No
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe or SATA interface

Optical

Some: external ODD box with DVD-ROM, 9.5mm high, via USB
Some: external ODD box with DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD-ROM, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M900 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M900 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & ODD box:
7.42" W X 7.30" D X 2.48" H
188.4mm W X 185.38mm D X 63mm H
4.12 lb (1.87 kg), weight may vary by configuration
With VESA mount & I/O box:
7.42" W X 7.30" D X 2.62" H
188.4mm W X 185.38mm D X 66.6mm H
3.53 lb (1.6 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools
- Intel Unite (vPro models only)

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*; EPEAT™ Gold rating*; (*Need 85% PSU and Windows OS); ErP Lot 3; GREENGUARD®; RoHS-compliant; TUV Green Mark, ULE Gold

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M900 Tiny (10FM) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10FM0006US	i5-6500T	4GBx1	Intel HD 530	120GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM0007US	i5-6500T	4GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM0008US	i7-6700T	8GBx1	Intel HD 530	120GB SSD	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM0009US	i5-6500T	4GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM000AUS	i5-6500T	4GBx1	Intel HD 530	120GB SSD	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM000BUS	i7-6700T	8GBx1	Intel HD 530	120GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	10/15
10FM0014US	i5-6500T	8GBx1	Intel HD 530	128GB SSD	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0017US	i5-6500T	4GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0018US	i7-6700T	8GBx1	Intel HD 530	180GB SSD opal	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0019US	i7-6700T	8GBx1	Intel HD 530	256GB SSD opal	DVD±RW	8260 ac vPro	Serial	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001AUS	i7-6700T	8GBx1	Intel HD 530	500GB 7200	DVD±RW	8260 ac vPro	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001BUS	i7-6700T	8GBx1	Intel HD 530	256GB SSD opal	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001CUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200	DVD±RW	8260 ac vPro	None	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001DUS	i7-6700T	8GBx1	Intel HD 530	180GB SSD opal	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15

- *For detailed platform specifications, please see ThinkCentre M900 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510	No
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530	No
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe or SATA interface

Optical

Some: external ODD box with DVD or DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD or DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M900 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M900 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 Tiny (10FM) - TopSeller - II

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10FM001EUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001FUS	i5-6500T	8GBx1	Intel HD 530	256GB SSD opal	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001GUS	i7-6700T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001HUS	i5-6500T	8GBx1	Intel HD 530	192GB SSD	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001JUS	i7-6700T	8GBx1	Intel HD 530	128GB SSD	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001KUS	i7-6700T	8GBx1	Intel HD 530	192GB SSD	DVD±RW	8260 ac vPro	HDMI	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001LUS	i7-6700T	8GBx1	Intel HD 530	192GB SSD	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001MUS	i5-6500T	4GBx1	Intel HD 530	128GB SSD	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001NUS	i5-6500T	4GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001PUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	Serial	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001QUS	i5-6500T	4GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001RUS	i5-6500T	8GBx1	Intel HD 530	192GB SSD	None	8260 ac vPro	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001SUS	i5-6500T	8GBx1	Intel HD 530	180GB SSD opal	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001TUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	HDMI	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15

- *For detailed platform specifications, please see ThinkCentre M900 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510	No
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530	No
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe or SATA interface

Optical

Some: external ODD box with DVD or DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD or DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M900 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M900 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 Tiny (10FM) - TopSeller - III

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10FM001UUS	i5-6500T	8GBx1	Intel HD 530	256GB SSD opal	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001VUS	i7-6700T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001WUS	i7-6700T	8GBx1	Intel HD 530	192GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001XUS	i7-6700T	8GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM001YUS	i7-6700T	8GBx1	Intel HD 530	180GB SSD opal	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0020US	i7-6700T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	None	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0021US	i7-6700T	8GBx1	Intel HD 530	256GB SSD opal	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	12/15
10FM0022US	i7-6700T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15
10FM0023US	i5-6500T	4GBx1	Intel HD 530	500GB 7200	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15
10FM0024US	i5-6500T	8GBx1	Intel HD 530	128GB SSD	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15
10FM0025US	i7-6700T	8GBx1	Intel HD 530	128GB SSD	DVD±RW	8260 ac vPro	3rd DP	None	Switch	None	Mount	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15
10FM0026US	i5-6500T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15
10FM0027US	i5-6500T	4GBx1	Intel HD 530	500GB 7200	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB	Speaker	65W	None	None	Win10 Pro 64	3-onsite	No	12/15

- *For detailed platform specifications, please see ThinkCentre M900 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510	No
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530	No
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe or SATA interface

Optical

Some: external ODD box with DVD or DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD or DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M900 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M900 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 Tiny (10FM) - TopSeller - IV

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	DP Dongle	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Dust Filter	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10FM002UUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200 rpm	DVD±RW	8260 ac vPro	VGA	None	Switch	None	Mount	USB / USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10FM002VUS	i5-6500T	4GBx1	Intel HD 530	500GB 7200 rpm	DVD±RW	8260 ac vPro	VGA	None	Switch	None	Mount	USB / None	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10FM002TUS	i7-6700T	8GBx1	Intel HD 530	256GB SSD opal	None	8260 ac vPro	VGA	None	Switch	Stand	None	USB / USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	01/16
10FM0031US	i5-6500T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	VGA	None	Switch	Stand	None	USB / USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	03/16
10FM0030US	i5-6600T	8GBx1	Intel HD 530	128GB SSD	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB / USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	03/16
10FM0032US	i5-6600T	8GBx1	Intel HD 530	500GB 7200 rpm	None	8260 ac vPro	3rd DP	None	Switch	Stand	None	USB / USB	Speaker	65W	None	None	Win7 P64 DG Win10	3-onsite	No	03/16

- *For detailed platform specifications, please see ThinkCentre M900 Tiny Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400T	2 / 2	2.9 G	3 MB	DDR4-2133	HD 510	No
Pentium G4500T	2 / 2	3.0 G	3 MB	DDR4-2133	HD 530	No
Core i3-6100T	2 / 4	3.2 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300T	2 / 4	3.3 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400T	4 / 4	2.2 G / 2.8 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500T	4 / 4	2.5 G / 3.1 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600T	4 / 4	2.7 G / 3.5 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700T	4 / 8	2.8 G / 3.6 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe or SATA interface

Optical

Some: external ODD box with DVD or DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD or DVD±RW, 9.5mm high, via USB

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional HDMI, VGA, or 3rd DP, up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

Four USB 3.0 (optional external optical box or external I/O box occupies one or two specific USB 3.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M900 Tiny)

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
M900 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 SFF
optional monitor



ThinkCentre M900 SFF



ThinkCentre M900 SFF
top view



ThinkCentre M900 SFF
bottom view



ThinkCentre M900 SFF
front and back view



ThinkCentre M900 SFF
left and right view

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ThinkCentre M900 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

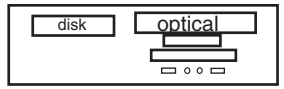
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter



Bay 1: N/A, 9.5mm high, external, std optical
Bay 2: 3.5", 1" high, internal, std disk
Bay 3: 2.5", N/A, internal, opt 2nd 2.5" disk (optional bay)
Bay 4: N/A, N/A, external, opt reader
Slot 1: Low Profile, PCI Express 3.0 x16 (45w max)
Slot 2: Low Profile, PCIe 3.0 x1
Slot 3: Low Profile, PCIe 3.0 x16 (x4 elec, 45w max)
Slot 4: Low Profile, optional 32-bit PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools
- Intel Unite (vPro models only)

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*; EPEAT™ Gold rating*; (*Need 85% PSU and Windows OS); ErP Lot 3; GREENGUARD®; RoHS-compliant; TUV Green Mark, ULE Gold

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M900 SFF (10FH) - TopSeller

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FH000KUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	11/15
10FH000LUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	8260 ac vPro	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Windows 10 Pro64	11/15
10FH000MUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	8260 ac vPro	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	11/15
10FH000NUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Windows 10 Pro64	11/15
10FH001YUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH0020US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH0021US	i5-6500	4GBx1	180GB SSD opal	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH0022US	i5-6500	8GBx1	256GB SSD opal	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH0023US	i5-6500	8GBx1	192GB SSD	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH0024US	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	8260 ac vPro	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH0025US	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH0026US	i5-6500	8GBx1	180GB SSD opal	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH0027US	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15

- *For detailed platform specifications, please see ThinkCentre M900 SFF Platform Specifications sheet*

Processor — Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory — 64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk —
Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s

Optical —
Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA — Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port, RAID 0, 1 support

Media reader — Optional 7-in-1 media reader

Graphics — **Intel HD Graphics 510/530** in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable — Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset — **Intel Q170 Chipset**

Front ports — Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports — Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports — Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394 — None

Audio support — High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13] —
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™ — *Some:* Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet — Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability — Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip — Trusted Platform Module, TCG 1.2-compliant

Security features —
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard —
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse —
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical —
- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand — Optional system floor stand for vertical orientation

Power supply — 210 watts, autosensing, 85% PSU

Limited warranty[3] —
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload —
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 SFF (10FH) - TopSeller - II

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FH0028US	i5-6500	4GBx1	128GB SSD	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH0029US	i5-6500	4GBx1	192GB SSD	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH002AUS	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH002BUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH002CUS	i5-6500	8GBx1	500GB 7200 3.5	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH002DUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH002EUS	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FH002FUS	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH002GUS	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	GT 720 1GB	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH002HUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH002JUS	i5-6500	8GBx1	128GB SSD	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FH002KUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2.5 bay	8260 ac vPro	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15
10FH002LUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2.5 bay	8260 ac vPro	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	12/15

- *For detailed platform specifications, please see ThinkCentre M900 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 SFF (10FH) - TopSeller - III

Type-model	Processor	Memory	Storage	Optical	Optional 2.5" Bay	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Floor stand	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FH003MUS	i5-6500	8GBx1	128GB SSD	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	03/16
10FH003NUS	i5-6500	8GBx1	500GB 7200 3.5	DVD±RW	2.5 bay	None	None	Intel HD 530	None	None	None	None	Stand	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	03/16

- *For detailed platform specifications, please see ThinkCentre M900 SFF Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four SATA 6.0Gb/s connectors, one is eSATA for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (9.7L), black color; metal case
- *(WxDxH)* 13.31" X 14.05" X 3.46"; 338mm X 357mm X 88mm
- 12.3 lb (5.6 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional dust filter

Bays: 9.5mm ODD bay x1, 3.5"x1, opt 2.5" bay x1, MCR bay x1
Slots (Low Profile): two PCIe 3.0 x16 (one is x4 elec, 45w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

210 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 Mini Tower
with optional monitor



ThinkCentre M900 Mini Tower



ThinkCentre M900 Mini Tower
with optional front access HDD



ThinkCentre M900 Mini Tower
with optional adapters



ThinkCentre M900 Mini Tower
back view



ThinkCentre M900 Mini Tower
left view

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ThinkCentre M900 Mini Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, one DVI-I, one DisplayPort, 41 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz; 2560x1600 (DVI-I)@60Hz
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 25 watts;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, PCIe 2.0 x8 adapter, two DisplayPort, 25 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

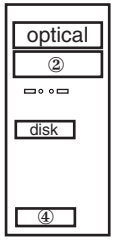
Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional carry handle, dust filter

Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: 5.25", 1.6" high, access, opt media reader / front access HDD
Bay 3: 3.5", 1" high, no access, std disk
Bay 4: 3.5", 1" high, no access, opt disk (optional 2nd 3.5" disk tray)
Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)
Slot 2: half-length, full-height, PCIe 3.0 x1
Slot 3: half-length, full-height, PCIe 3.0 x16 (x4 elec, 75w max)
Slot 4: half-length, full-height, optional 32-bit PCI 2.3 (via M.2 to PCI adaptor)



Power supply

Some: 250 watts, autosensing, 85% PSU
Some: 400 watts, autosensing, 92% PSU (available only via Special Bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools
- Intel Unite (vPro models only)

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*; EPEAT™ Gold rating*; (*Need 85% PSU and Windows OS); ErP Lot 3; GREENGUARD®; RoHS-compliant; TUV Green Mark, ULE Gold

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M900 Mini Tower (10FD) - TopSeller

Type-model	Proces-sor	Memory	Storage	Optical	2nd 3.5" HDD tray	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FD0007US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	11/15
10FD0008US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	None	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite, OID	No	Win7 P64 DG Win10	11/15
10FD001WUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	11/15
10FD001XUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FD001YUS	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FD0020US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	11/15
10FD0021US	i5-6500	8GBx1	500GB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	11/15
10FD0022US	i5-6500	8GBx1	500GB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	11/15
10FD0024US	i5-6500	4GBx1	128GB SSD	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FD0025US	i5-6500	8GBx1	256GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD0026US	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD0027US	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FD0028US	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15

• *For detailed platform specifications, please see ThinkCentre M900 Mini Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional carry handle, dust filter

Bays: 5.25" bay x2 (opt media reader / front access HDD occupy 2nd 5.25" bay), 3.5" bay x2 (2nd 3.5" disk tray is optional)
Slots (full-height): two PCIe 3.0 x16 (one is x4 elec, 75w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Power supply

250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900 Mini Tower (10FD) - TopSeller - II

Type-model	Proces-sor	Memory	Storage	Optical	2nd 3.5" HDD tray	WLAN	Media reader	Graphics	DP dongle	Optional front ports	Optional rear ports	Chassis intrusion switch	Carry handle	Front access HDD	PCI slot	Dust filter	vPro	Key-board/ Mouse	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10FD0029US	i5-6500	4GBx1	500GB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002AUS	i5-6500	4GBx1	180GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002BUS	i7-6700	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002CUS	i7-6700	8GBx1	256GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FD002DUS	i5-6500	4GBx1	128GB SSD	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002EUS	i5-6500	8GBx1	180GB SSD opal	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15
10FD002FUS	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002GUS	i5-6500	4GBx1	192GB SSD	DVD±RW	2nd 3.5" Tray	None	None	Intel HD 530	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Win7 P64 DG Win10	12/15
10FD002HUS	i5-6500	8GBx1	1TB 7200 3.5	DVD±RW	2nd 3.5" Tray	None	None	GT 720 1GB	None	None	None	None	Handle	None	None	None	vPro	USB	3-onsite	No	Windows 10 Pro64	12/15

- *For detailed platform specifications, please see ThinkCentre M900 Mini Tower Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

64GB max, UDIMM, DDR4 2133, four 288-pin DIMM sockets, dual-channel capable

Disk

Some: Hard disk, SATA 6.0Gb/s, 2.5"/ 3.5" wide, 5400 / 7200 rpm
Some: Solid State Hybrid Drive (SSHD), 500GB (5400 rpm, 2.5") / 1TB or 2TB (7200 rpm, 3.5"), with 8GB NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Some: M.2 SSD, PCIe NVMe, PCIe 3.0 x4, 32Gb/s
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive
Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, one is eSATA connector for optional rear eSATA port, RAID 0, 1 support

Media reader

Optional 29-in-1 media reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™
Some: **NVIDIA® Quadro® K420**, DirectX 12, 2GB, one DVI-I, one DisplayPort;
Some: **NVIDIA Geforce® GT 720**, DirectX 12, 2GB, one VGA, one HDMI;
Some: **NVIDIA Geforce GT 720**, DirectX 12, 1GB, two DisplayPort;

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

Intel Q170 Chipset

Front ports

Two USB 3.0, two optional USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports

Six USB 3.0, two optional USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), one optional eSATA port
additional VGA, DisplayPort, DVI-I or HDMI on optional graphics on some models

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Mini Tower (25L), black color, metal case
- *(WxDxH)* 6.89" X 16.26" X 15.98"; 175mm X 413mm X 406mm
- 27.56 lb (12.5 kg)
- Toolless cover, disk, optical removal
- Toolless graphics, PCI adapter retention
- Optional carry handle, dust filter

Bays: 5.25" bay x2 (opt media reader / front access HDD occupy 2nd 5.25" bay), 3.5" bay x2 (2nd 3.5" disk tray is optional)
Slots (full-height): two PCIe 3.0 x16 (one is x4 elec, 75w max), one PCIe 3.0 x1, one opt PCI 2.3 (via M.2 to PCI adaptor)

Power supply

250 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available
Some: **3-year**, **limited onsite service, OID** (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre



ThinkCentre M93z (Multi-touch) with Frame Stand and optional wireless keyboard and mouse



ThinkCentre M93z (Non-touch) with Monitor Standand optional wireless keyboard and mouse



ThinkCentre M93z with Monitor Stand with optional PS/2 and Serial ports



ThinkCentre M93z with Frame Stand with optional PS/2 and Serial ports



Frame Stand
(Adjustable between 10° and 45°)



Monitor Stand
(Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°)

ThinkCentre M93z (10AF) - TopSeller (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[6]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000JUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AF) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[§]	Camera (mega-pixel)	Disk SATA GB	Disk SATA rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF0003US	i5-4570S	4GBx1	2.0M	500G	7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AF0004US	i5-4430S	4GBx1	2.0M	500G	7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AF0005US	i7-4770S	4GBx1	2.0M	1TB	7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0006US	i5-4670S	4GBx1	2.0M	500G	Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0007US	i5-4570S	4GBx1	2.0M	180G	SSD	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0008US	i7-4770S	8GBx1	2.0M	500G	Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF000KUS	i5-4570S	4GBx1	2.0M	128G	SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13
10AF000LUS	i7-4770S	8GBx1	2.0M	1TB	7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or September 10, 2013

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ThinkCentre M93z (10AF) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000FUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000HUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000VUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	None	USB	vPro*	None	Win7 Pro64 DG	11/12/13
10AF000WUS	i7-4770S	8GBx1	2.0M	256G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF0010US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AF0011US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AF001HUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	12/09/14
10AF001JUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	03/24/15
10AF001KUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	03/24/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n, PCIe HMC, Intel Centrino® Wireless-N 2230,Wi-Fi + BT combo, 2x2 *Some:* 11b/g/n, PCIe HMC, Intel Wireless-N 7260, Wi-Fi + BT combo, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory§	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001HUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	vPro*	None	Win7 Pro64 DG	08/13/13
10AD001MUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

● Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 13, 2013 or August 20, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0001US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro*	None	Win7 Pro64 DG	07/09/13
10AD0003US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AD0004US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0005US	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0008US	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG	07/09/13
10AD0009US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD001GUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	08/13/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - II

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001LUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AD0020US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	None	USB	vPro*	None	Win7 Pro64 DG	11/12/13
10AD0021US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	None	USB	None	None	Win7 Pro64 DG	11/12/13
10AD0022US	i5-4570S	4GBx1	2.0M	256G SSD	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013 or November 12, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - III

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0024US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	01/21/14
10AD0025US	i7-4770S	4GBx1	2.0M	500G Hybrid	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AD0026US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AD0027US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	01/21/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - IV

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/yy)*
10AD002LUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002GUS	i5-4590S	4GBx1	2.0M	1TB 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	10/14
10AD002RUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002PUS	i7-4790S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002NUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002MUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14
10AD002SUS	i7-4790S	4GBx1	2.0M	180G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002QUS	i7-4790S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002KUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	Sensor	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002HUS	i5-4590S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - V

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/yy)*
10AD002FUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro*	None	Win7 P64 DG Win8.1	10/14
10AD002JUS	i5-4590S	4GBx1	2.0M	180G SSD	HD 4600	N7260	None	Sensor	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14
10AD002UUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	03/15

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4150 Processor** (**2 cores / 4 threads**, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4590S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4790S Processor** (**4 cores / 8 threads**, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0002US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	None	None	None	Monitor	2.4G	vPro*	None	Win8 Pro64	07/09/13
10AD0006US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Frame	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD0007US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD001DUS	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001EUS	i5-4670S	4GBx1	2.0M	1TB 7200	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001FUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001NUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win8 Pro64	08/20/13

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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US model(s) announced July 9, 2013, July 23, 2013, August 20, 2013
(MPHS1-6) September 2013

ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8.1

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0028US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro*	None	Win8.1 Pro64	01/21/14
10AD0029US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8.1 Pro64	01/21/14

** Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11, external monitor support via DisplayPort, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M900z with basic monitor stand



ThinkCentre M900z with basic monitor stand



ThinkCentre M900z with basic monitor stand



ThinkCentre M900z with UltraFlex II stand



ThinkCentre M900z with UltraFlex II stand



ThinkCentre M900z with multitouch

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ThinkCentre M900z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, monitor mode switch, brightness up/down buttons, and power button

Chipset

Intel Q170 Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC286 / two internal stereo speakers (3W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	23.0 X 1.8 X 15.4 (inch); 584 X 45 X 390 (mm)	(Touch) 17.2 / 7.8 (Non-touch) 15.0 / 6.8	N/A
With Basic Monitor stand:	23.0 X 9.6 X 18.0 (inch); 584 X 245 X 458 (mm)	(Non-touch) 19.4 / 8.8	Tilt: 45° back, -5° forward
With UltraFlex II stand:	23.0X 10.0 X 19.9 (inch); 584 X 253 X 505 (mm)	(Touch) 22.7 / 10.3 (Non-touch) 20.7 / 9.4	Tilt: 61° back, -5° forward; Lift: 160mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

EPEAT™ Gold rating; ENERGY STAR® 6.1; TCO Certified Edge; TUV Green Mark; ULE Gold; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre M900z (10F3) - TopSeller

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10F30005US	i5-6500	4GBx1	23.8" FHD	No	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	11/15
10F30006US	i5-6500	8GBx1	23.8" FHD	No	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	11/15
10F30007US	i5-6500	4GBx1	23.8" FHD	No	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	Basic Monitor	USB	vPro	3-onsite	No	Windows 10 Pro 64	11/15
10F30009US	i5-6500	4GBx1	23.8" FHD	No	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	11/15
10F3000AUS	i7-6700	4GBx1	23.8" FHD	No	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	11/15

- *For detailed platform specifications, please see ThinkCentre M900z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, monitor mode switch, brightness up/down buttons, and power button

Chipset

Intel Q170 Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC286 / two internal stereo speakers (3W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre M900z (10F2) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10F20005US	i7-6700	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	Switch	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	11/15
10F20006US	i5-6500	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	11/15
10F20008US	i5-6500	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	11/15
10F20009US	i7-6700	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	Switch	UltraFlex II	USB	vPro	3-onsite	G	Win7 Pro64 DG Win10	11/15
10F2000AUS	i5-6600	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	G	Win7 Pro32 DG Win10	11/15
10F2000YUS	i5-6500	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	11/15
10F20010US	i7-6700	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	500GB 7200	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	11/15
10F2001BUS	i7-6700	4GBx2	23.8" FHD	Touch	Intel HD 530	None	1080p	128GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	1-onsite	No	Windows 10 Pro 64	11/15

- *For detailed platform specifications, please see ThinkCentre M900z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, monitor mode switch, brightness up/down buttons, and power button

Chipset

Intel Q170 Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC286 / two internal stereo speakers (3W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information
US model(s) withdrawn effective March 2016

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ThinkCentre M900z (10F2) - TopSeller - II

Type-model	Proces-sor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10F20023US	i7-6700	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	128GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	04/16
10F20026US	i7-6700	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	128GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	04/16
10F20025US	i5-6500	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	128GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	04/16
10F20027US	i5-6500	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	256GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	04/16
10F20024US	i7-6700	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	256GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	04/16
10F20029US	i7-6700	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	256GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Windows 10 Pro 64	04/16
10F20022US	i5-6500	4GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	128GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	04/16
10F20028US	i5-6500	8GBx1	23.8" FHD	Touch	Intel HD 530	None	1080p	256GB SSD	DVD±RW	8260 ac vPro	Media	None	None	UltraFlex II	USB	vPro	3-onsite	No	Win7 Pro64 DG Win10	04/16

- *For detailed platform specifications, please see ThinkCentre M900z Platform Specifications sheet*

Processor

Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	No
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530	No
Core i3-6100	2 / 4	3.7 G	3 MB	DDR4-2133	HD 530	No
Core i3-6300	2 / 4	3.8 G	4 MB	DDR4-2133	HD 530	No
Core i5-6400	4 / 4	2.7 G / 3.3 G	6 MB	DDR4-2133	HD 530	No
Core i5-6500	4 / 4	3.2 G / 3.6 G	6 MB	DDR4-2133	HD 530	vPro
Core i5-6600	4 / 4	3.3 G / 3.9 G	6 MB	DDR4-2133	HD 530	vPro
Core i7-6700	4 / 8	3.4 G / 4.0 G	8 MB	DDR4-2133	HD 530	vPro

Memory

32GB max, DDR4 2133, two 260-pin SO-DIMM sockets, dual-channel capable

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 9.5mm high
Some: DVD burner, SATA 1.5Gb/s, 9.5mm high

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare for both touch models and non-touch models, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, monitor mode switch, brightness up/down buttons, and power button

Chipset

Intel Q170 Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin),

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC286 / two internal stereo speakers (3W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA9377 (dual band), 1x1
Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.0, M.2 Card, Intel Dual Band Wireless-AC 3165, 1x1
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 / 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

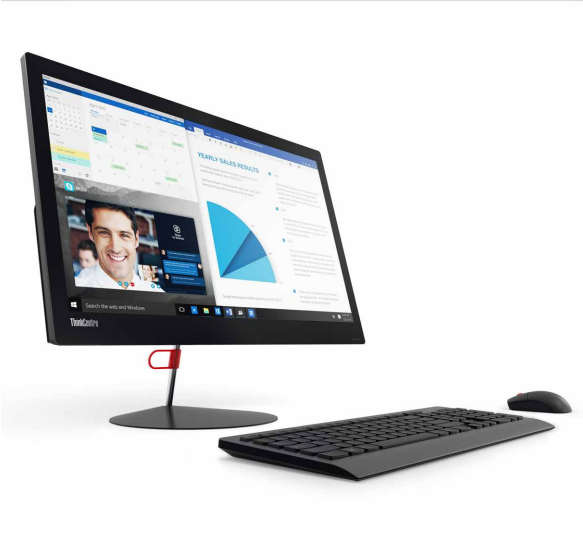
Some: **1-year or 3-year, depot repair service**
Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

See footnotes for more detailed information

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ThinkCentre X1 with optional wireless keyboard/mouse



ThinkCentre X1



ThinkCentre X1



ThinkCentre X1



ThinkCentre X1



ThinkCentre X1 with optional VESA mount kit

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ThinkCentre X1 Platform Specifications

Processor

Intel® 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Core i3-6100U	2 / 4	2.3 G	3 MB	DDR4-2133	HD 520	No
Core i5-6200U	2 / 4	2.3 G / 2.8 G	3 MB	DDR4-2133	HD 520	No
Core i5-6300U	2 / 4	2.4 G / 3.0 G	3 MB	DDR4-2133	HD 520	vPro
Core i7-6600U	2 / 4	2.6 G / 3.4 G	4 MB	DDR4-2133	HD 520	vPro

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Memory

16GB max, DDR4 2133, one 260-pin SO-DIMM socket

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 520 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

DP Dongle

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

None

Camera

2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, DP in / out switch, and power button

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Three USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port,

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (5W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0) on some models; Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color, Aluminum Alloy
- Toolless back cover and memory removal
- Optional VESA mount kit (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	22.4 X 1.3 X 14.2 (inch); 570 X 33 X 360 (mm)	8.8 / 4	N/A
With Orchid tilt stand:	22.4 X 9.4 X 17.8 (inch); 570 X 240 X 451 (mm)	11.0 / 5	Tilt: 45° back, -5° forward

Power supply

90 watts adapter, autosensing, 88% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock (for models with Wi-Fi/BT card)
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

EPEAT™ Gold rating; ENERGY STAR® 6.1; TCO Certified Edge; TUV Green Mark; ULE Gold; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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ThinkCentre X1 (10KE) - TopSeller

Type-model	Processor	Memory	Widescreen display	Multi-Touch	Graphics	DP Dongle	Cam-era	Storage	Optical	WLAN	Media reader	Chassis intrusion switch	Stand type	Key-board/ Mouse	vPro	Base Warranty (year)	Global	Preload	Ann Date (mm/yy)
10KE0007US	i5-6200U	8GBx1	23.8" FHD	No	Intel HD 520	None	1080p	256GB SSD	None	8260 ac	Media	None	Orchid Tilt	2.4G	None	3-onsite	No	Win7 Pro64 DG Win10	01/16
10KE0008US	i5-6200U	4GBx1	23.8" FHD	No	Intel HD 520	None	1080p	120GB SSD	None	8260 ac	Media	None	Orchid Tilt	2.4G	None	3-onsite	No	Win7 Pro64 DG Win10	01/16

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- *For detailed platform specifications, please see ThinkCentre X1 Platform Specifications sheet*

Processor

Intel® 6th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Types	Integrated Graphics	Intel vPro
Core i3-6100U	2 / 4	2.3 G	3 MB	DDR4-2133	HD 520	No
Core i5-6200U	2 / 4	2.3 G / 2.8 G	3 MB	DDR4-2133	HD 520	No
Core i5-6300U	2 / 4	2.4 G / 3.0 G	3 MB	DDR4-2133	HD 520	vPro
Core i7-6600U	2 / 4	2.6 G / 3.4 G	4 MB	DDR4-2133	HD 520	vPro

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Memory

16GB max, DDR4 2133, one 260-pin SO-DIMM socket

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide, 5400 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 520 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz

DP Dongle

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via DisplayPort (DP in / out combo)

Light sensor

None

Multi-touch

None

Camera

2.0-megapixel camera, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off, Skype for Business certified

Controls

Microphone mute, DP in / out switch, and power button

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Three USB 3.0, ethernet (RJ-45), DisplayPort in/out combo port,

Side ports

Two USB 3.0 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

One M.2 Card slot (for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (5W x 2), Dolby® Audio™ certified, Skype for Business certified

WLAN[13]

Some: 11ac + BT 4.1, M.2 Card, Qualcomm Atheros QCA6174 (dual band), 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, 2x2
Some: 11ac + BT 4.1, M.2 Card, Intel Dual Band Wireless-AC 8260, vPro, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0) on some models; Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Trusted Platform Module (TPM 1.2-compliant)

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Slim USB Keyboard (USB connector), black
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color, Aluminum Alloy
- Toolless back cover and memory removal
- Optional VESA mount kit (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	22.4 X 1.3 X 14.2 (inch); 570 X 33 X 360 (mm)	8.8 / 4	N/A
With Orchid tilt stand:	22.4 X 9.4 X 17.8 (inch); 570 X 240 X 451 (mm)	11.0 / 5	Tilt: 45° back, -5° forward

Power supply

90 watts adapter, autosensing, 88% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **limited onsite service**
Some: **3-years**, **limited onsite service, OID** (Onsite International Delivery) /
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Environment

EPEAT™ Gold rating; ENERGY STAR® 6.1; TCO Certified Edge; TUV Green Mark; ULE Gold; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand



Handle



Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand

ThinkCentre Edge 62z (2117) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Stand type	Global	Preload	Ann date *(mm/dd/yy)*
2117-BBU	i3-3220	4GBx1 1600MHz	720p	500G 7200	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EKU	G2020	2GBx1 1600MHz	720p	500G 7200	DVD±RW	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-ELU	G2020	2GBx1 1600MHz	720p	500G 7200	None	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EWU	i3-3240	2GBx1 1600MHz	720p	320G 5400	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	05/14/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Essential All-In-One PC for small/medium businesses*
Processor	**Intel® Pentium® G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	8GB max, **PC3-12800 1600MHz DDR3**, one 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses system memory
Display	**18.5"** (470mm) **HD (1366x768) TFT color**, CCFL backlight, 200 nits, 16:9 aspect ratio, 600:1 dynamic contrast ratio
Multi-touch	None
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus
Controls	Front facing button for power on/off, side buttons for brightness up and brightness down
Disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
Optical	*Some:* DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	None
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), serial (9-pin)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VC
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	None
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	120 watts, autosensing, 87% PSU
Machine	*Model(s) with Frame stand:* ● Business black color ● 18.5" W X 2.3" D X 14.5" H ● 469.7mm W X 59.5mm D X 368.4mm H (including stand) ● 11 lb (5 kg) in maximum configuration ● Tilt: 10°-20° back; no lift; no swivel; adjustable stand ● Supports VESA mount (100mm)
Limited Warranty	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Lenovo® Message Center Plus

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Lenovo Cloud Storage by SugarSync
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Evernote®
- Symantec™ VIP
- Intel AppUp®
- Nitro PDF Pro
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge62Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced March 26 or May 14, 2013

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ThinkCentre E63z (touch)
wiith USB mouse/keyboard



ThinkCentre E63z (touch)
wiith USB mouse/keyboard



ThinkCentre E63z (non-touch)
wiith USB mouse/keyboard



ThinkCentre E63z
(right view)



ThinkCentre E63z
(left view)



ThinkCentre E63z
(back view)

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ThinkCentre E63z Platform Specifications

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, anti-glare for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

ExpressCard

None

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth combo adapter, 1x1
Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)

Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Lenovo SHAREit
- BlueTooth Security Lock
- Desktop Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Lenovo SHAREit
- BlueTooth Security Lock
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Environment

EPEAT™ Gold (For Windows models only); ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D4) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D40004US	19.5" HD+	None	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D40005US	19.5" HD+	None	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, anti-glare for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)

Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10D6) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D60005US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D60006US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D60007US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	black	Win7 P64 DG Win8.1	1-onsite	No	08/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, anti-glare for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)

Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E0) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E00027US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00028US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00029US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	2GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002AUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	64GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002BUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, anti-glare for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)

Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E63z (10E2) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Color	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E2001QUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001RUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001SUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001TUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	128GB SSD	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001UUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E20044US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	1TB 5400	None	7260 b/g/n	Frame	USB	black	Win7 P64 DG Win8.1	1-onsite	No	06/15

- *For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

Processor

Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400

* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

Memory

Pentium models: 8GB max[7] / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
Core i3 models: 16GB max[7] / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets
*System automatically clocks down for 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

None

SATA controller

Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Media reader

Optional 7-in-1 media card reader (Core i3 models only)

Graphics

Intel HD Graphics or **Intel HD Graphics 4400** in processor, uses main memory, *Maximum resolution:* 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

Display

19.5" (495.3mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, anti-glare for non-touch models

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

Controls

Power button on right side

Chipset

Intel System-on-Chip (SoC) platform

Rear ports

Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

Side ports

Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

PCIe Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

WLAN[13]

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®

vPro & iAMT

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver)

Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver)

Mechanical

- Business black or white
- Support VESA mount (100mm)
- Optional frame stand

Dimensions *(WxDxH)*	Weight (Maximum)	Adjustments
E63z non-touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back
E63z touch with frame stand		
19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back

Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

Limited warranty[3]

Some: **1-year or 3-years**, **limited onsite service** / service upgrades available
Some: **1-year or 3-years**, **Depot or Carry-in** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit

Environment

ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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ThinkCentre E73 SFF and Tower



ThinkCentre E73 Tower
with Dual Lenovo ThinkVision Monitors



ThinkCentre E73 SFF



ThinkCentre E73 SFF



ThinkCentre E73 Tower



ThinkCentre E73 SFF
with HDD and optional SSD

ThinkCentre E73 SFF (10AU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Floor stand	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AU002MUS	3x4	i5-4430S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	Serial	None	USB	None	Win7 Pro64 (DG)	10/22/13
10AU002PUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002QUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002RUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU00EUUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ETUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ERUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ESUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00MGUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	USB	None	Win7 P64 DG Win10	08/18/15
10AU00MFUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win10	08/18/15

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning: *Stylish design, reliability, and productivity for small/medium businesses*

Processor: Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Pentium G3240	2 / 2	3.1 GHz	3 MB	DDR3-1333	Intel HD
Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD
Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400
Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400
Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600

Implementation: Processor in LGA1150 socket

Memory: 16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets
*System automatically clocks down for processors with 1333MHz memory controller

Graphics: **Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking)

DP dongle: None

Disk: *Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

SATA controller: Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

Onboard SATA: SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

eSATA port: None

Media reader: Optional 9-in-1 media reader, internal USB 2.0

Chipset: **Intel H81 Express Chipset**

Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports: Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort

Rear audio ports: Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

PCIe WLAN: None

Bluetooth: None

Audio: High Definition (HD) Audio, Realtek® ALC662 codec

Speaker: Internal speaker for business audio

IEEE 1394: None

Ethernet: Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

Manageability: None

Modem: None

Security chip: None

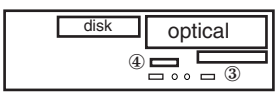
Keyboard: *Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Some: Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo

Mouse: Enhanced Optical USB Mouse, black, Lenovo logo

Floor Stand: Optional system floor stand for vertical orientation

Power supply: 180 watts, universal, autosensing

Machine:
- Glossy black bezel; metal case
- 13.2" W X 15.0" D X 3.98" H
- 336mm W X 382mm D X 101mm H
- 13.2 lb (6.0 kg) in maximum configuration
- Highlighted optical drive button for easy access



Bay: Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: 3.5", 1" high, no access, std disk
Bay 3: 2.5", N/A, no access, opt 2nd SSD*
Bay 4: 1.5", .35" high, access, optnl reader*
*bay only available on models with SSD/reader installed

Slot: Slot 1: Low Profile, PCI Express® 3.0 x16 (40w max)
Slot 2: Low Profile, PCIe 2.0 x1
Slot 3: Low Profile, PCIe 2.0 x1

Limited Warranty[1]: **1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1/10 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E73 Tower (10AS) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AS002JUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS002KUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS005LUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 Pro64 (DG)	12/10/13
10AS00DEUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DFUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DGUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DDUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00GTUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	USB	None	Win7 P64 DG Win10	08/18/15
10AS00GUUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win10	08/18/15

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning: *Stylish design, reliability, and productivity for small/medium businesses*

Processor: Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Pentium G3240	2 / 2	3.1 GHz	3 MB	DDR3-1333	Intel HD
Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD
Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400
Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400
Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600

Implementation: Processor in LGA1150 socket

Memory: 16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets
*System automatically clocks down for processors with 1333MHz memory controller

Graphics: **Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking)

DP dongle: None

Disk: *Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

SATA controller: Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

Onboard SATA: SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

eSATA port: None

Media reader: Optional 9-in-1 media reader, internal USB 2.0

Chipset: **Intel H81 Express Chipset**

Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports: Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort

Rear audio ports: Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

PCIe WLAN: None

Bluetooth: None

Audio: High Definition (HD) Audio, Realtek® ALC662 codec

Speaker: Internal speaker for business audio

IEEE 1394: None

Ethernet: Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

Manageability: None

Modem: None

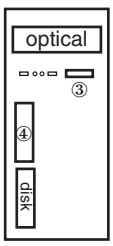
Security chip: None

Keyboard: *Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Some: Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo

Mouse: Enhanced Optical USB Mouse, black, Lenovo logo

Power supply: 180 watts, universal, autosensing

Machine:
- Glossy black bezel; metal case
- 6.3" W X 15.7" D X 15.6" H (with handle)
- 160mm W X 400mm D X 397mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Ergonomic rubberized handle
- Highlighted optical drive button for easy access



Bay: Bay 1: 5.25", 1.6" high, access, std optical
Bay 2: 3.5", 1" high, no access, std disk
Bay 3: 1.5", .35" high, access, optnl reader*
Bay 4: 3.5", 1" high, no access, opt 2nd 2.5" disk**
*bay only available on models with media reader installed
**3.5" to 2.5" bracket comes with optional 2nd 2.5" disk

Slot: Slot 1: half-length, full-height, PCI Express® 3.0 x16 (60w max)
Slot 2: half-length, full-height, PCIe 2.0 x1
Slot 3: half-length, full-height, PCIe 2.0 x1

Limited Warranty[1]: **1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1/10 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z All-In-One



ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand



ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand



ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand

ThinkCentre E93z All-In-One - II



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand
with optional wireless mouse / keycoard
and Lenovo ThinkVision Monitor



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z (handle)

ThinkCentre E93z (10B8) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Preload	Ann date *(mm/dd/yy)*
10B80007US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB	Win7 P64 DG Win8	08/27/13
10B80058US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win8	10/22/13
10B8007CUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	UltraFlex	USB	Win7 P64 DG Win8.1	04/08/14
10B8008KUS	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14
10B8008LUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Lenovo® Slim New F5 USB Keyboard (USB connector), black *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z (10B9) - NVIDIA (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10B9000SUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 27, 2013

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ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	War-ranty	Preload	Ann date *(mm/dd/yy)*
10BA000EUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	Frame	2.4G	1-year	Win7 Pro64 DG	08/27/13
10BA000FUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	2.4G	1-year	Win7 Pro64 DG	08/27/13
10BA000GUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	1-year	Win7 Pro64 DG	08/27/13
10BA000HUS	i5-4430S	8GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	1-year	Win7 Pro64 DG	08/27/13
10BA001LUS	i7-4770S	8GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	1-year	Win7 Pro64 DG	08/27/13
10BA00AFUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N7260	Media	Frame	USB	3-year	Win7 P64 DG Win8.1	02/17/15

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-year or 3-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BA000MUS	i5-4670S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win8 Pro64	08/27/13
10BA001MUS	i5-4570S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	None	Win8 Pro64	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 6.0-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced August 27, 2013

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ThinkCentre - TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year LOR 9x5 Next Business Day	04W8712

TopSeller service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

4-year LOR 9x5 Next Business Day	04W8712

TopSeller Priority Support

• 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

* Covered machine must have concurrent warranty coverage.

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Partial list of Lenovo Services[7] for ThinkCentre desktops

For more information see:
http://www.lenovo.com/services_warranty/us/en/index.html

Lenovo service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

Models with 7-digit MTM

2-year Onsite 9x5 Next Business Day	41C9187
3-year Onsite 9x5 Next Business Day	41C9188

Models with 10-digit MTM

2-year Onsite 9x5 Next Business Day	5WS0D80992
3-year Onsite 9x5 Next Business Day	5WS0D80967

ThinkCentre desktop with 3-year Onsite warranty

Models with 7-digit MTM

4-year Onsite 9x5 Next Business Day	41C9194

Models with 10-digit MTM

4-year Onsite 9x5 Next Business Day	5WS0D81063

Lenovo service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

2-year Onsite 9x5 Next Business Day	45K5949
3-year Onsite 9x5 Next Business Day	45K5950

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year Onsite 9x5 Next Business Day	45K5957
5-year Onsite 9x5 Next Business Day	45K5963

Lenovo Priority Support for enterprise customers

• 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9087

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9088
Add to 4-year warranty coverage - 4-year Priority Support*	45J9089
Add to 5-year warranty coverage - 5-year Priority Support*	45J9090

* Covered machine must have concurrent warranty coverage.

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Withdrawn Product Books

Disclaimer
Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page . Lenovo makes no representation or warranty regarding third party products or services.

[1] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[2] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[3] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[4] **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.

[5] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

[7] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See Lenovo terms and conditions for complete details and restrictions.

[8] **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.

[9] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[10] **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[11] **For combination drives**, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

[12] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[13] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[14] **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

[15] **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.

[16] **Embedded Security Subsystem** works with optional VPN software.

[18] **Embedded Security Subsystem** may require download of client security software from the Web.

[19] **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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Visit **www.lenovo.com/psref** for the latest version of Product Specifications Reference.

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1009 Think Place
Morrisville, NC 27560
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