

ThinkPad® Laptops U.S.

Product Specifications Reference

Type/Model	Processor	Memory	Display	Webcam	Audio	Ports	Wireless	Security	Accessories	Operating System	Approx. Weight
20A90000US	17-4600U	4+4GB	14.0" FHD	720p	2x 2W	2x USB 3.0, 1x USB 2.0, 1x FireWire, 1x VGA, 1x Ethernet	802.11n	TPM 2.0	Lenovo ThinkPad Case, Battery, Charger	Windows 7 Pro 64-bit	~4.5 lbs
20A90000US	17-4600U	4+4GB	14.0" FHD	720p	2x 2W	2x USB 3.0, 1x USB 2.0, 1x FireWire, 1x VGA, 1x Ethernet	802.11n	TPM 2.0	Lenovo ThinkPad Case, Battery, Charger	Windows 7 Pro 64-bit	~4.5 lbs
20A90000US	17-4600U	4+4GB	14.0" FHD	720p	2x 2W	2x USB 3.0, 1x USB 2.0, 1x FireWire, 1x VGA, 1x Ethernet	802.11n	TPM 2.0	Lenovo ThinkPad Case, Battery, Charger	Windows 7 Pro 64-bit	~4.5 lbs

Version 487, April 2016

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► Withdrawn product(s)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

Product Specifications Reference (PSREF)

Positioning	Mainstream value performance; two spindles								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
Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor									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)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	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	
	Cel 2950M	2	4	2 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 4600	Bluetooth™ Ethernet Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter <i>HM86 model:</i> Intel Ethernet Connection I217-V (Clarkville) <i>QM87 model:</i> Intel Ethernet Connection I217-LM (Clarkville)	
	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	4	8	2.8 GHz	3.5 GHz	3MB			Security Security chip Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	
	i7-4600M			2.9 GHz	3.6 GHz	4MB			vPro (optional) Intel vPro Technology	
	i7-4702MQ			2.2 GHz	3.2 GHz	6MB			Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
	i7-4712MQ			2.3 GHz	3.3 GHz	6MB			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 service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)	
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 <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™									
M.2 SSD	<i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card									
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 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; <i>Max resolution:</i> 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									
									Mil-Spec test MIL-STD-810G military certification	
									Environment EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant	

ThinkPad L440 20AT (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	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							Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack																																										
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys																																										
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch																																										
	i3-4000M		2.4 GHz	-	3MB			ThinkLight™	None																																										
	i3-4100M		2.5 GHz	-	3MB			Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset																																										
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)																																										
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Smart card reader	<i>Optional:</i> Smart card reader																																										
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																																										
	i5-4330M		2.8 GHz	3.5 GHz	3MB			Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector																																										
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			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																																										
	i7-4702MQ		2.2 GHz	3.2 GHz	6MB			WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS																																										
	i7-4712MQ		2.3 GHz	3.3 GHz	6MB			SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider																																										
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																										
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)																																									
M.2 SSD								Security	Power-on password, hard disk password, supervisor password, security keyhole																																										
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio								Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant																																									
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor																																									
Graphics	Intel HD Graphics 4600 in processor								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 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64																																									
Dimensions ³	14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm								Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite																																										
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																																																		

See footnotes for more detailed information

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ThinkPad L440 20AT (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint 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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys		
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™	None		
	i3-4100M		2.5 GHz	-	3MB		Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset		
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)		
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader	<i>Optional:</i> Smart card reader		
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB					
	i7-4702MQ		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						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		
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
M.2 SSD							SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider		
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio						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)		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Graphics	Intel HD Graphics 4600 in processor						Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology		
Dimensions ³	14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm						Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor		
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						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		
Battery type	Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication							Win8 / 8.1 64: Windows 8 / 8.1 64-bit		
Max battery life ¹⁰	Models	6-cell 48Wh	6-cell 56Wh	9-cell 99.9Wh						Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
	Win7 (MobileMark® 2007)	10 hr	11 hr	21 hr						Win10 P64: Windows 10 Pro 64
	Win8 (MobileMark 2012)	6.2 hr	7.5 hr	13 hr						
AC adapter	65-watt AC adapter						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 L440 20AT (TopSeller) - III

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys	
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™	None	
	i3-4100M		2.5 GHz	-	3MB		Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)	
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader	<i>Optional:</i> Smart card reader	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB				
	i7-4702MQ		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						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	
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
M.2 SSD							SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)	
Graphics	Intel HD Graphics 4600 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Dimensions ³	14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm						Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant	
Weight ²	Models	6-cell 48Wh		6-cell 56Wh		9-cell 99.9Wh	Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor	
	Weight	4.96 lb / 2.25kg		5.0 lb / 2.27kg		5.36 lb / 2.43kg	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	
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Win8 / 8.1 64: Windows 8 / 8.1 64-bit	
Battery type	Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication							Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
Max battery life ¹⁰	Models	6-cell 48Wh		6-cell 56Wh		9-cell 99.9Wh		Win10 P64: Windows 10 Pro 64	
	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						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 L440 20AS

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AS0063US	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	1-depot	Yes	04/14
20AS005TUS	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	128G SSD	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	04/14
20AS002CUS	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	3-depot	No	09/13
20AS002DUS	i3-4000M	No	HD 4600	HM86	2GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002EUS	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	3-depot	No	09/13
20AS002FUS	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002GUS	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002HUS	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002JUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS002KUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD	1T 5400	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS002LUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002MUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD+	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002NUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD+	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS002SUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD+	1T 5400	7260 ac+BT	EM7355	Select	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS002TUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	14" HD+	256G SSD Opal	7260 ac+BT	EM7355	Select	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS005UUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	04/14
20AS005VUS	i5-4300M	vPro	HD 4600	QM87	8GBx1	14" HD	256G SSD Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	04/14
20AS005WUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200 Opal	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	04/14

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications](#) sheet

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys	
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™	None	
	i3-4100M		2.5 GHz	-	3MB		Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)	
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader	<i>Optional:</i> Smart card reader	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB	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		
i7-4702MQ	2.2 GHz		3.2 GHz	6MB	WWAN (<i>optional</i>)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
i7-4712MQ	2.3 GHz		3.3 GHz	6MB	SIM card (<i>optional</i>)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)	
M.2 SSD							Security	Power-on password, hard disk password, supervisor password, security keyhole	
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio						Security chip vPro (<i>optional</i>)	Trusted Platform Module, TCG 1.2-compliant	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor	
Graphics	Intel HD Graphics 4600 in processor						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	
Dimensions ³	14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm							Win8 / 8.1 64: Windows 8 / 8.1 64-bit	
Weight ²	<i>Models</i>	<i>6-cell 48Wh</i>	<i>6-cell 56Wh</i>	<i>9-cell 99.9Wh</i>					Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
	<i>Weight</i>	4.96 lb / 2.25kg	5.0 lb / 2.27kg	5.36 lb / 2.43kg					Win10 P64: Windows 10 Pro 64
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								
Battery type	Li-Ion 6-cell (<i>48Wh</i> or <i>56Wh</i>) or 9-cell (<i>99.9Wh</i>), HW Authentication								
Max battery life ¹⁰	<i>Models</i>	<i>6-cell 48Wh</i>	<i>6-cell 56Wh</i>	<i>9-cell 99.9Wh</i>					
	<i>Win7 (MobileMark® 2007)</i>	10 hr	11 hr	21 hr					
	<i>Win8 (MobileMark 2012)</i>	6.2 hr	7.5 hr	13 hr					
AC adapter	65-watt AC adapter								
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 L440 20AS - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AS0060US	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD+	500G 7200 Opal	7260 ac+BT	Upg	None	Smart	None	720p	Finger	9	65W	Win8.1 DG Win7	3-depot	No	04/14
20AS0061US	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AS0062US	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD+	256G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AS0064US	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AS0065US	i5-4300M	vPro	HD 4600	QM87	8GBx1	14" HD+	256G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AS0066US	i7-4600M	vPro	HD 4600	QM87	4GBx1	14" HD+	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AS001NUS	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
20AS002UUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	None	None	720p	None	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002VUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS002WUS	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
20AS002XUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD	500G 7200	7260 ac+BT	16GB	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AS002YUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	14" HD	128G SSD	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AS0030US	i5-4330M	vPro	HD 4600	QM87	8GBx1	14" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	09/13
20AS0031US	i7-4600M	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
20AS0032US	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD+	500G 7200	6235 a/b/g/n+BT	16GB	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	No	09/13
20AS0033US	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	No	11/13
20AS0034US	i7-4600M	vPro	HD 4600	QM87	8GBx1	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
20AS007UUS	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	3-depot	No	03/15

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications](#) sheet

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Audio support		HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack												
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard		6-row, spill-resistant, multimedia Fn keys												
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™		TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch												
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™		None												
	i3-4100M		2.5 GHz	-	3MB		Chipset		Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset												
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)		One slot (ExpressCard/34, ExpressCard/54)												
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader		<i>Optional:</i> Smart card reader												
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)												
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports		One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector												
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB	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													
i7-4702MQ	2.2 GHz		3.2 GHz	6MB	WWAN (optional)		Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS														
i7-4712MQ	2.3 GHz		3.3 GHz	6MB	SIM card (optional)		AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider														
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Bluetooth™		Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Ethernet		HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)												
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Security		Power-on password, hard disk password, supervisor password, security keyhole												
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio						Security chip vPro (optional)		Trusted Platform Module, TCG 1.2-compliant												
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Fingerprint reader		<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor												
Graphics	Intel HD Graphics 4600 in processor						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 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64												
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																				
Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite																					

See footnotes for more detailed information

(OS1-4) © Lenovo

ThinkPad L440 20AS - III

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AS005XUS	i5-4300M	vPro	HD 4600	QM87	8GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8.1 DG Win7	3-depot	No	04/14
20AS005YUS	i7-4600M	vPro	HD 4600	QM87	8GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	No	04/14

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys		
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™	None		
	i3-4100M		2.5 GHz	-	3MB		Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset		
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)		
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader	Optional: Smart card reader		
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
	i7-4600M	2.9 GHz	3.6 GHz	4MB	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			
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	WWAN (optional)		Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	SIM card (optional)		AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						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)		
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 Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Security	Power-on password, hard disk password, supervisor password, security keyhole		
M.2 SSD							Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology		
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						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						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		
Graphics	Intel HD Graphics 4600 in processor						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
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									

See footnotes for more detailed information

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ThinkPad L440 20AS (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AS0003US	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(48wh)	65W	Win8 64	3-depot	No	09/13
20AS0012US	i5-4200M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(48wh)	65W	Win8 P64	3-depot	Yes	09/13
20AS007VUS	i5-4210M	No	HD 4600	HM86	4GBx1	14" HD	500G 7200	7260 b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(48wh)	65W	Win8.1 64	3-depot	No	03/15

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys	
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4000M		2.4 GHz	-	3MB			ThinkLight™	None	
	i3-4100M		2.5 GHz	-	3MB			Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset	
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)	
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Smart card reader	Optional: Smart card reader	
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB			Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	i7-4600M	2.9 GHz	3.6 GHz	4MB	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		
i7-4702MQ	4	2.2 GHz	3.2 GHz	6MB	WWAN (optional)		Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
i7-4712MQ		2.3 GHz	3.3 GHz	6MB	SIM card (optional)		AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
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 Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)		
M.2 SSD							Security	Power-on password, hard disk password, supervisor password, security keyhole		
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						Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
Graphics	Intel HD Graphics 4600 in processor						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		
Dimensions ³	14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite			
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									

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

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor								Smart card reader	Optional: Smart card reader								
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Cel 3205U	2	4	1.5 GHz	-	2MB	DDR3L-1600	Intel HD Graphics	Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)								
	i5-4300U				Intel HD Graphics 4400													
	i3-5005U				Intel HD Graphics 5500													
	i5-5200U																	
i5-5300U																		
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)								Camera (optional)	HD720p resolution, low light sensitive, fixed focus								
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys								
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								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch								
Multi-touch	None								Security	Power-on password, hard disk password, supervisor password, security keyhole								
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™								Security chip	Trusted Platform Module, TCG 1.2-compliant								
M.2 SSD (opt)	Some: SSHD with 8GB NAND flash memory								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures								
Optical	M.2 Solid State Drive (SSD), via M.2 card slot								vPro (optional)	Intel vPro Technology								
Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor								
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)								
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								Max battery life ¹⁰	<table><tr><th>Models</th><th>3-cell 23Wh</th><th>6-cell 48Wh</th><th>6-cell 72Wh</th></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16 hr</td></tr></table>	Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh	Battery life	5.2 hr	10.7 hr	16 hr
Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh															
Battery life	5.2 hr	10.7 hr	16 hr															
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								AC adapter	45W AC adapter or 65W AC adapter								
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								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)								
Dimensions ³	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm								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)								
Weight ²	<table><tr><th>Models</th><th>3-cell</th><th>6-cell</th></tr><tr><td>Weight</td><td>4.25 lb / 1.93 kg</td><td>4.43 lb / 2.01 kg</td></tr></table>								Models	3-cell	6-cell	Weight	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg	Mil-Spec test	MIL-STD-810G military certification		
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								Environment	EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant								

ThinkPad L450 20DT (TopSeller)

Product Specifications Reference (PSREF)

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					Dimensions ³	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm											
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	<table><tr><td>Models</td><td colspan="2">3-cell</td><td>6-cell</td></tr><tr><td>Weight</td><td colspan="2">4.25 lb / 1.93 kg</td><td>4.43 lb / 2.01 kg</td></tr></table>			Models	3-cell		6-cell	Weight	4.25 lb / 1.93 kg		4.43 lb / 2.01 kg
	Models	3-cell		6-cell														
	Weight	4.25 lb / 1.93 kg		4.43 lb / 2.01 kg														
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	Optional: Smart card reader										
i3-5005U	2 GHz		-	3MB	Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)											
i5-5200U	2.2 GHz		2.7 GHz	3MB	Ports		Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)											
i5-5300U	2.3 GHz	2.9 GHz	3MB															
Graphics	Intel HD Graphics 4400 or 5500 in processor					Camera (optional)	HD720p resolution, low light sensitive, fixed focus											
Chipset	Intel SoC (System on Chip) platform					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack											
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Keyboard	6-row, spill-resistant, multimedia Fn keys											
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					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch											
Multi-touch	None					Security	Power-on password, hard disk password, supervisor password, security keyhole											
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					Security chip	Trusted Platform Module, TCG 1.2-compliant											
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					vPro (optional)	Intel vPro Technology											
Optical	None					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor											
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)											
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Max battery life ¹⁰	<table><tr><td>Models</td><td>3-cell 23Wh</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16 hr</td></tr></table>			Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh	Battery life	5.2 hr	10.7 hr	16 hr	
Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh															
Battery life	5.2 hr	10.7 hr	16 hr															
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card			AC adapter	45W AC adapter or 65W AC adapter											
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card			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											
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 L450 20DS

Product Specifications Reference (PSREF)

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)
20DS001SUS	i5-4300U	vPro	HD 4400	4GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001UUS	i5-4300U	vPro	HD 4400	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001WUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001XUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001YUS	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	3-depot	No	01/15
20DS0020US	i5-4300U	vPro	HD 4400	8GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0021US	i5-4300U	vPro	HD 4400	4GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0022US	i5-4300U	vPro	HD 4400	4GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0023US	i5-4300U	vPro	HD 4400	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0024US	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	3-depot	No	01/15
20DS0025US	i5-4300U	vPro	HD 4400	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0026US	i5-4300U	vPro	HD 4400	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS000VUS	i5-5200U	No	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0019US	i5-5200U	No	HD 5500	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001HUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001MUS	i5-5200U	No	HD 5500	4GBx2	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS000TUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0011US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0012US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0013US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS0018US	i5-5300U	vPro	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001AUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001CUS	i5-5300U	vPro	HD 5500	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20DS001DUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	3(23wh)	45W	Win8.1 DG Win7	3-depot	No	01/15

• 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					Dimensions ³ Weight ²	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	3-cell	6-cell
	Cel 3205U	2	1.5 GHz	-	2MB		DDR3L-1600	Weight	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg
	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					Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch	None					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys			
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant			
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					vPro (optional)	Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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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Product Specifications Reference (PSREF)

- For detailed platform specifications, please see [ThinkPad L450 Platform Specifications](#) sheet

See footnotes for more detailed information

ThinkPad L450 20DS (Onsite)

Product Specifications Reference (PSREF)

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)
20DS000XUS	i5-5200U	No	HD 5500	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000YUS	i5-5200U	No	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0017US	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001JUS	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000UUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000WUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0010US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0015US	i5-5300U	vPro	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001BUS	i5-5300U	vPro	HD 5500	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001EUS	i5-5300U	vPro	HD 5500	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001FUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001KUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001LUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001NUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15

• 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					Dimensions ³ Weight ²	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	3-cell	6-cell
	Cel 3205U	2	1.5 GHz	-	2MB		DDR3L-1600	Weight	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg
	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					Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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 None					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys			
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant			
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					vPro (optional)	Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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



Lenovo ThinkPad L460



Lenovo ThinkPad L460

ThinkPad L460 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor								Smart card readerOptional: Smart card reader				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510	Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
	i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520	Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
	i5-6200U			2.3 GHz	2.8 GHz	3MB			Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
	i5-6300U			2.4 GHz	3.0 GHz	3MB			Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
i7-6500U	2.5 GHz			3.1 GHz	4MB	Security Security chip ThinkEngine				Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
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)								vPro (optional) Fingerprint reader	Intel vPro Technology Intel vPro Technology			

ThinkPad L460 20FU (TopSeller)

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell		6-cell
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg		4.45 lb / 2.02 kg
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg		4.5 lb / 2.04 kg
	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						
						Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic				
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						Smart card reader	Optional: Smart card reader			
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
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						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
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						Keyboard	6-row, spill-resistant, multimedia Fn keys			
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Security chip	Power-on password, hard disk password, supervisor password, security keyhole			
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						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
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)						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

(LR2-1) © Lenovo

ThinkPad L460 20FU (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell	6-cell	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg	
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg	
	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						Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
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						Security chip	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Trusted Platform Module, TCG 1.2-compliant				
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)						vPro (optional)	Intel vPro Technology			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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 (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell		6-cell	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg		4.45 lb / 2.02 kg	
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg		4.5 lb / 2.04 kg	
	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						Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
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						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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)						vPro (optional)	Intel vPro Technology				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

Product Specifications Reference (PSREF)

Positioning	Mainstream business performance; two spindles								Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor								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	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			
	Cel 2950M	2	4	2 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 4600			
	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	4	8	2.8 GHz	3.5 GHz	3MB					
	i7-4600M			2.9 GHz	3.6 GHz	4MB					
i7-4702MQ	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								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	
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 Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								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)	
M.2 SSD									Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology	
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								Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								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 service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)	
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)								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 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)	
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad 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								Mil-Spec test	MIL-STD-810G military certification	
Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant	
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										

ThinkPad L540 20AV (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint 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					Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Keyboard UltraNav™ ThinkLight™ Chipset ExpressCard (opt)One slot (ExpressCard/34, ExpressCard/54) Smart card readerOptional: Smart card reader Media reader4-in-1 reader (MMC, SD, SDHC, SDXC) PortsOne Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	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					WLAN ⁴ <i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>6235 a/b/g/n+BT:</i> Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					WWAN (optional) <i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
M.2 SSD						SIM card (optional) <i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider		
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio					Bluetooth™ Ethernet		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					<i>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i> <i>HM86 model:</i> Intel Ethernet Connection I217-V (Clarkville) <i>QM87 model:</i> Intel Ethernet Connection I217-LM (Clarkville)		
Graphics	Intel HD Graphics 4600 in processor					Security Security chip vPro (optional) Fingerprint reader		
Dimensions ³	<i>HD (WxDxH):</i> 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm <i>FHD (WxDxH):</i> 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm					Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor		
Weight ²	<i>Models</i>	<i>6-cell 48Wh</i>		<i>6-cell 56Wh</i>		<i>9-cell 99.9Wh</i>		
	<i>HD</i>	5.54lb / 2.52kg		5.60lb / 2.54kg		5.95lb / 2.70kg		
	<i>FHD</i>	5.68lb / 2.58kg		5.73lb / 2.60kg		6.08lb / 2.76kg		
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic					Preload		
Battery type	Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication					<i>Win8 / 8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit		
Max battery life ¹⁰	<i>Models</i>	<i>6-cell 48Wh</i>		<i>6-cell 56Wh</i>		<i>9-cell 99.9Wh</i>		
	<i>Win7 (MobileMark® 2007)</i>	9 hr		11 hr		19 hr		
	<i>Win8 (MobileMark 2012)</i>	6 hr		7 hr		12 hr		
AC adapter	65-watt AC adapter					<i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> 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

(PD1-1) © Lenovo

ThinkPad L540 20AV (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint 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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard UltraNav™ ThinkLight™ Chipset ExpressCard (opt)One slot (ExpressCard/34, ExpressCard/54) Smart card readerOptional: Smart card reader Media reader4-in-1 reader (MMC, SD, SDHC, SDXC) PortsOne Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	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	4	2.9 GHz	3.6 GHz	4MB				
i7-4702MQ	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						WLAN ⁴ 		

See footnotes for more detailed information

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ThinkPad L540 20AU

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AU002NUS	i5-4300M	No	HD 4600	HM86	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002PUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002QUS	i5-4330M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002RUS	i5-4330M	No	HD 4600	HM86	4GBx1	15.6" HD	1T 5400	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002SUS	i5-4330M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002TUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002VUS	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU002WUS	i5-4300M	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	3-depot	Yes	09/13
20AU002XUS	i3-4000M	No	HD 4600	HM86	2GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU0030US	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU0032US	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	3-depot	Yes	09/13
20AU0033US	i5-4300M	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	3-depot	Yes	09/13
20AU0036US	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU0037US	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU0039US	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU003BUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" HD	1T 5400	6235 a/b/g/n+BT	16GB	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications](#) sheet

Processor	Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4000M		2.4 GHz	-	3MB		ThinkLight™	None	
	i3-4100M		2.5 GHz	-	3MB		Chipset	Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ExpressCard (opt)	One slot (ExpressCard/34, ExpressCard/54)	
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Smart card reader	<i>Optional:</i> Smart card reader	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB				
	i7-4702MQ		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						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	
Optical Storage	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
M.2 SSD							SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)	
Graphics	Intel HD Graphics 4600 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole	
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						Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology	
Weight ²	Models	6-cell 48Wh	6-cell 56Wh	9-cell 99.9Wh			Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor	
	HD	5.54lb / 2.52kg	5.60lb / 2.54kg	5.95lb / 2.70kg			Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	FHD	5.68lb / 2.58kg	5.73lb / 2.60kg	6.08lb / 2.76kg				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	
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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								

See footnotes for more detailed information
 US model(s) withdrawn effective March 2015

(PD1-3) © Lenovo

ThinkPad L540 20AU - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AU003FUS	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	3-depot	Yes	09/13
20AU003JUS	i5-4200M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	6235 a/b/g/n+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU003LUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	256G SSD Opal	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU003MUS	i7-4702MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	1T 5400	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU005YUS	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AU0060US	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AU0061US	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	256G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AU0062US	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AU0063US	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AU000YUS	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	Yes	11/13
20AU001EUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU002UUS	i5-4330M	vPro	HD 4600	QM87	4GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU002YUS	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	500G 7200	7260 ac+BT	16GB	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU0031US	i5-4330M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	16GB	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU0038US	i5-4330M	vPro	HD 4600	QM87	8GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU003AUS	i5-4300M	vPro	HD 4600	QM87	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	Smart	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	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					Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Keyboard 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 readerOptional: Smart card reader Media reader4-in-1 reader (MMC, SD, SDHC, SDXC) PortsOne Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	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					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		
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 Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					WWAN (optional) Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
M.2 SSD						SIM card (optional) AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider		
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					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)		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Security Security chip vPro (optional) Intel vPro Technology Fingerprint readerOptional: Fingerprint reader on the palm rest, swipe sensor		
Graphics	Intel HD Graphics 4600 in processor					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		
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					Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
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							

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(PD1-4) © Lenovo

ThinkPad L540 20AU - III

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Chipset	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AU006CUS	i7-4712MQ	No	HD 4600	HM86	8GBx1	15.6" FHD	1T 5400	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8.1 DG Win7	3-depot	Yes	03/15
20AU006DUS	i7-4712MQ	No	HD 4600	HM86	8GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8.1 DG Win7	3-depot	Yes	03/15
20AU006EUS	i5-4210M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	None	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	03/15
20AU006FUS	i5-4210M	No	HD 4600	HM86	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8.1 DG Win7	3-depot	Yes	03/15
20AU003EUS	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	3-depot	Yes	09/13
20AU003KUS	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU0034US	i5-4330M	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	3-depot	Yes	09/13
20AU0035US	i5-4300M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	9	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU003CUS	i5-4300M	No	HD 4600	HM86	4GBx1	15.6" HD	128G SSD	7260 ac+BT	Upg	None	None	Exp/54	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	09/13
20AU003DUS	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	3-depot	Yes	11/13
20AU003GUS	i7-4600M	vPro	HD 4600	QM87	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	11/13
20AU003HUS	i7-4600M	vPro	HD 4600	QM87	8GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	None	720p	Finger	6(56wh)	65W	Win8 DG Win7	3-depot	Yes	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					Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
	Cel 2950M	2	2 GHz	-	2MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	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	4	2.9 GHz	3.6 GHz	4MB	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
i7-4702MQ	2.2 GHz		3.2 GHz	6MB	Ports	One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
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					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	
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 Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
M.2 SSD						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
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					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Ethernet	HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville)	
Graphics	Intel HD Graphics 4600 in processor					Security	Power-on password, hard disk password, supervisor password, security keyhole	
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					Security chip	Trusted Platform Module, TCG 1.2-compliant	
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					Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
Battery type	Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication					Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
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					Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(PD1-5) © Lenovo

ThinkPad L560

Product Specifications Reference (PSREF)



Lenovo® ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560

ThinkPad L560 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor								ExpressCard (opt)One slot (ExpressCard/34)	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Smart card readerOptional: Smart card reader	Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510	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
	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)								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
Chipset	Intel SoC (System on Chip) platform								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Security	Power-on password, hard disk password, supervisor password, security keyhole
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								Security chip	Trusted Platform Module, TCG 1.2-compliant
Multi-touch	None								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures
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								vPro (optional)	Intel vPro Technology
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in								Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Battery	Li-Ion 6-cell (48Wh)
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								Max battery life ¹⁰	MobileMark® 2014: 11.2 hr
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								AC adapter	45W AC 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)								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • 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)
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								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)
Dimensions ³	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm								Mil-Spec test	MIL-STD-810G military certification
Weight ²	from 5.25 lb / 2.38 kg								Environment	EPEAT™ Gold (US); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic									

ThinkPad L560 20F1 (TopSeller)

Product Specifications Reference (PSREF)

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						Dimensions ³	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 5.25 lb / 2.38 kg		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i3-6100U		2.3 GHz	-	3MB		ExpressCard (opt)	One slot (ExpressCard/34)		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		Smart card reader	Optional: Smart card reader		
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
Graphics	Intel HD Graphics 510 or 520 in processor						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		
Chipset	Intel SoC (System on Chip) platform						Camera (optional)	HD720p resolution, low light sensitive, fixed focus		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack		
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Multi-touch	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
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						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology		
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						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery	Li-Ion 6-cell (48Wh)		
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)						Max battery life ¹⁰	MobileMark® 2014: 11.2 hr		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

Product Specifications Reference (PSREF)

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						Dimensions ³	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 5.25 lb / 2.38 kg		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i3-6100U		2.3 GHz	-	3MB		ExpressCard (opt)	One slot (ExpressCard/34)		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		Smart card reader	Optional: Smart card reader		
i5-6300U	2.4 GHz		3.0 GHz	3MB	Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)			
Graphics	Intel HD Graphics 510 or 520 in processor						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		
Chipset	Intel SoC (System on Chip) platform						Camera (optional)	HD720p resolution, low light sensitive, fixed focus		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack		
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Multi-touch	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
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						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology		
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						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery	Li-Ion 6-cell (48Wh)		
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)						Max battery life ¹⁰	MobileMark® 2014: 11.2 hr		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

Product Specifications Reference (PSREF)

Positioning	Mainstream Ultrabook™ or Thinbook; one spindle								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight																
Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor								UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch																
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	ThinkLight™	None																
	i3-4010U	2	4	1.7 GHz	-	3MB	DDR3L-1600	Intel HD graphics 4400	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																
	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)								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)																
Optical Storage	None 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								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																
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								Bluetooth™ Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication																
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								NFC	Optional: Near Field Communication																
Multi-touch Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology																
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)								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)																
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								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)															
Weight ²	<table><tr><td>Models</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell</td></tr><tr><td>Integrated Non-MultiTouch</td><td>3.79 lb / 1.72kg</td><td>4.10 lb / 1.86kg</td></tr><tr><td>Integrated MultiTouch</td><td>4.03 lb / 1.83kg</td><td>4.33 lb / 1.97kg</td></tr><tr><td>Optimus Non-MultiTouch</td><td>3.73 lb / 1.69kg</td><td>4.04 lb / 1.83kg</td></tr><tr><td>Optimus MultiTouch</td><td>3.97 lb / 1.80kg</td><td>4.33 lb / 1.97kg</td></tr></table>								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			
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	<table><tr><td>Models</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell 47.5Wh</td><td>3-cell + 6-cell 72Wh</td></tr><tr><td>Integrated</td><td>8.6 hr</td><td>12.9 hr</td><td>17.2 hr</td></tr><tr><td>Optimus</td><td>7.7 hr</td><td>11.6 hr</td><td>15.4 hr</td></tr></table>								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						
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								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)

Product Specifications Reference (PSREF)

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	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	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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
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)						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
Optical Storage	None 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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						NFC	Optional: Near Field Communication
Graphics	Intel HD Graphics 4400 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole
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						Security chip	Trusted Platform Module, TCG 1.2-compliant
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			vPro (optional)	Intel vPro Technology
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg			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
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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							

See footnotes for more detailed information

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ThinkPad T440 20B6 (TopSeller) - II

Product Specifications Reference (PSREF)

				Memory (soldered +DIMM)		Multi- touch				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)			Base warranty (year)	Global	Ann date (m/y)
Model	Processor	vPro	Graphics		Display		Storage		WLAN & Bluetooth										Preload				
20B6006AUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	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	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	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	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	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	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	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	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	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	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	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	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	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	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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None	
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform	
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader	
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
i7-4600U	2.1 GHz		3.3 GHz	4MB	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		
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)						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical Storage	None 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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
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						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						NFC	Optional: Near Field Communication	
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics 4400 in processor						Security chip	Trusted Platform Module, TCG 1.2-compliant	
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						vPro (optional)	Intel vPro Technology	
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell		Fingerprint reader			
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg		Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg		Preload			
						Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit			
Case material	Glass-Fiber Reinforced Plastic						Win8 / 8.1 64:	Windows 8 / 8.1 64-bit	
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Win8 / 8.1 P64:	Windows 8 / 8.1 Pro 64-bit	
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
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								

See footnotes for more detailed information

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ThinkPad T440 20B6 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

				Memory (soldered +DIMM)	Multi-touch			WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)		Base warranty (year)	Global	Ann date (m/y)
Model	Processor	vPro	Graphics		Display		Storage											Preload			
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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
	i7-4600U		2.1 GHz	3.3 GHz	4MB			WLAN ⁴
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)						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS
Optical Storage	None 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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
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						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						NFC	Optional: Near Field Communication
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole
Graphics	Intel HD Graphics 4400 in processor						Security chip	Trusted Platform Module, TCG 1.2-compliant
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						vPro (optional)	Intel vPro Technology
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg			Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg				Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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							

See footnotes for more detailed information

(CB1-3) © Lenovo

ThinkPad T440 20B7

Product Specifications Reference (PSREF)

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B70044US	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	Yes	11/13
20B70047US	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	Yes	11/13
20B7004CUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13
20B7004FUS	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	Yes	11/13
20B7004HUS	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	Yes	11/13
20B7004JUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13
20B7004MUS	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	Yes	11/13
20B7008UUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20B7008WUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20B7008YUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20B7008VUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20B7008XUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20B7004BUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13
20B7004DUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13
20B7004GUS	i7-4600U	vPro	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	Yes	11/13
20B7004QUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
	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)						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
Optical Storage	None 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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						NFC	Optional: Near Field Communication
Graphics	Intel HD Graphics 4400 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole
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						Security chip	Trusted Platform Module, TCG 1.2-compliant
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			vPro (optional)	Intel vPro Technology
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg			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
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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							

See footnotes for more detailed information

(CB1-4) © Lenovo

ThinkPad T440 20B7 (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Multi-Display touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)	
20B7005KUS	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	Yes	01/14
20B7005MUS	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	Yes	01/14
20B70005US	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 P64	3-depot	Yes	09/13
20B70009US	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000BUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000FUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000JUS	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 P64	3-depot	Yes	09/13
20B7000NUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000QUS	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 P64	3-depot	Yes	09/13
20B7000TUS	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 P64	3-depot	Yes	09/13
20B7000UUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000VUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000WUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7003SUS	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 P64	3-depot	No	09/13
20B7003UUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	No+6(47.5wh)	45W	Win8 P64	3-depot	No	09/13
20B7003VUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	09/13
20B70061US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	03/14
20B70062US	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 P64	3-depot	Yes	03/14

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None			
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform			
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader			
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector			
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
	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)						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			
Optical Storage	None 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 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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
M.2 SSD							SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
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 Some: Capacitive-type multi-touch, supports 10-finger gesture						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
Multi-touch	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)			
Camera							NFC	Optional: Near Field Communication			
Graphics	Intel HD Graphics 4400 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole			
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						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Weight ²	Models		3-cell + 3-cell		3-cell + 6-cell		vPro (optional)	Intel vPro Technology			
	Non-MultiTouch		3.79 lb / 1.72kg		4.10 lb / 1.86kg		Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
	MultiTouch		4.03 lb / 1.83kg		4.33 lb / 1.97kg		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			
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite				
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										

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(CB1-5) © Lenovo

ThinkPad T440 20B7 (Windows 8) - II

Product Specifications Reference (PSREF)

Model	Processor vPro	Graphics	Memory (soldered +DIMM)	Multi-Display touch	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader / M.2 SSD	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B70066US	i5-4300U vPro	HD 4400	4+0GB 14" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB 720p	None	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	03/14
20B70068US	i5-4300U vPro	HD 4400	4+0GB 14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None 720p	Backlit	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	03/14
20B70069US	i5-4300U vPro	HD 4400	4+0GB 14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None 720p	Backlit	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	03/14
20B7005LUS	i7-4600U vPro	HD 4400	4+0GB 14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None 720p	Backlit	Finger	None	None	3+3	45W	Win8.1 P64	3-depot	Yes	01/14
20B7005NUS	i7-4600U vPro	HD 4400	4+0GB 14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB 720p	Backlit	Finger	None	None	3+3	45W	Win8.1 P64	3-depot	Yes	01/14
20B70006US	i7-4600U vPro	HD 4400	4+0GB 14" HD+	MT	500G 7200	7260 ac+BT	Upg	None	16GB 720p	None	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B70008US	i7-4600U vPro	HD 4400	4+0GB 14" HD+	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None 720p	None	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000GUS	i7-4600U vPro	HD 4400	4+0GB 14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB 720p	None	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B7000RUS	i7-4600U vPro	HD 4400	4+0GB 14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None 720p	None	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20B70065US	i5-4300U vPro	HD 4400	4+0GB 14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB 720p	Backlit	Finger	None	None	3+3	45W	Win8 P64	3-depot	Yes	03/14

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
i7-4600U	2.1 GHz		3.3 GHz	4MB	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	
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)						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
Optical Storage	None 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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
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						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						NFC	Optional: Near Field Communication
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole
Graphics	Intel HD Graphics 4400 in processor						Security chip	Trusted Platform Module, TCG 1.2-compliant
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						vPro (optional)	Intel vPro Technology
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell		Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg		Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg		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	
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							

See footnotes for more detailed information

(CB1-6) © Lenovo

ThinkPad T440 20B7 (Onsite)

Product Specifications Reference (PSREF)

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B70048US	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-onsite	Yes	11/13
20B70049US	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-onsite	Yes	11/13
20B7004EUS	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-onsite	Yes	11/13
20B7004LUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13
20B7004NUS	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-onsite	Yes	11/13
20B7004PUS	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-onsite	Yes	11/13
20B7004RUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13
20B70045US	i7-4600U	vPro	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-onsite	Yes	11/13
20B70046US	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13
20B7004AUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13
20B7004KUS	i7-4600U	vPro	HD 4400	4+4GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None	
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform	
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader	
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
i7-4600U	2.1 GHz		3.3 GHz	4MB	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		
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)						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical Storage	None 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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
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						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						NFC	Optional: Near Field Communication	
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics 4400 in processor						Security chip	Trusted Platform Module, TCG 1.2-compliant	
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						vPro (optional)	Intel vPro Technology	
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg			Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg			Win8 / 8.1 64:	Windows 8 / 8.1 64-bit	
							Win8 / 8.1 P64:	Windows 8 / 8.1 Pro 64-bit	
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹²		
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
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								

See footnotes for more detailed information

(CB1-7) © Lenovo

ThinkPad T440 20B7 (Onsite) - Windows 8

Product Specifications Reference (PSREF)

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20B70007US	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 P64	3-onsite	Yes	09/13
20B7000DUS	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 P64	3-onsite	Yes	09/13
20B7000HUS	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 P64	3-onsite	Yes	09/13
20B7000LUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20B7000MUS	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 P64	3-onsite	Yes	09/13
20B7000PUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20B7000SUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20B7000XUS	i5-4300U	vPro	HD 4400	0+4GB	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20B7003TUS	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 P64	3-onsite	No	09/13
20B7003WUS	i5-4300U	vPro	HD 4400	0+8GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	No	09/13
20B70063US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20B70064US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20B70067US	i5-4300U	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-onsite	Yes	03/14
20B7006AUS	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-onsite	Yes	03/14
20B7000CUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i3-4030U		1.9 GHz	-	3MB		Smart card reader	Optional: Smart card reader
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
	i7-4500U		1.8 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
	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)						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
Optical Storage	None 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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider
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 Some: Capacitive-type multi-touch, supports 10-finger gesture						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Multi-touch	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)
Camera							NFC	Optional: Near Field Communication
Graphics	Intel HD Graphics 4400 in processor						Security	Power-on password, hard disk password, supervisor password, security keyhole
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						Security chip	Trusted Platform Module, TCG 1.2-compliant
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			vPro (optional)	Intel vPro Technology
	Non-MultiTouch	3.79 lb / 1.72kg		4.10 lb / 1.86kg			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor
	MultiTouch	4.03 lb / 1.83kg		4.33 lb / 1.97kg			Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit
Case material	Glass-Fiber Reinforced Plastic							Win8 / 8.1 64: Windows 8 / 8.1 64-bit
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication							Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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							

See footnotes for more detailed information

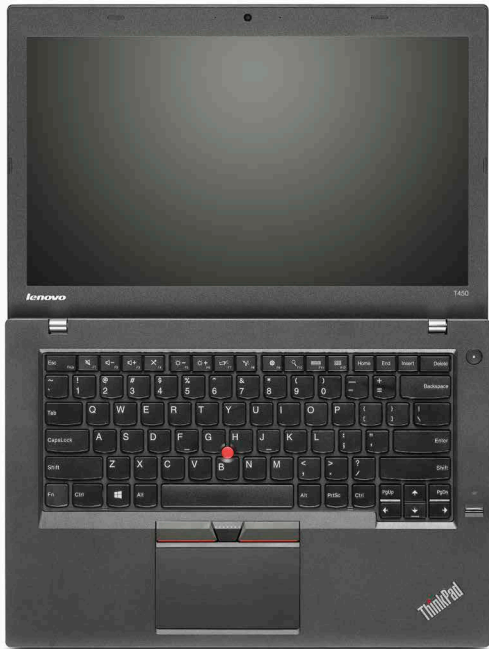
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Lenovo® ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450

ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor								Smart card reader	Optional: Smart card reader			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
	i3-4030U	2	4	1.9 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4400	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
	i5-4300U			1.9 GHz	2.9 GHz			Intel HD Graphics 5500					
	i3-5010U			2.1 GHz	-				4MB				
	i5-5200U			2.2 GHz	2.7 GHz	3MB							
	i5-5300U			2.3 GHz	2.9 GHz								
	i7-5500U			2.4 GHz	3 GHz								
	i7-5600U			2.6 GHz	3.2 GHz				Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
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)								vPro (optional)	Intel vPro Technology			
Chipset	Intel SoC (System on Chip) platform								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								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)			
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™									<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> 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)			
M.2 SSD (opt)	<i>Some:</i> SSHD with 8GB NAND flash memory												
Optical	Single-sided M.2 SSD, via M.2 card slot None												
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
WLAN ⁴	<i>One of the following, configurable by model:</i> • 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								Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 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)			
WWAN (optional)	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card								Mil-Spec test	MIL-STD-810G military certification			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant			
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											

ThinkPad T450 20BV (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	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						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	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								
i7-5600U	2.6 GHz	3.2 GHz	4MB									
Graphics	Intel HD Graphics 4400 or 5500 in processor						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						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)				
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						Camera	HD720p resolution, low light sensitive, fixed focus				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology				
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
WWAN (optional)	Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(CB2-1) © Lenovo

ThinkPad T450 20BV (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-touch Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint 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					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						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell	
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg	
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	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										
	i7-5600U	2.6 GHz	3.2 GHz	4MB									
Graphics	Intel HD Graphics 4400 or 5500 in processor						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader						
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)						
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus						
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant						
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					vPro (optional)	Intel vPro Technology						
WWAN (optional)	Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor						
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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

(CB2-7) © Lenovo

ThinkPad T450 20BV (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-Display	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					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						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell	
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg	
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	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									
	i7-5600U		2.6 GHz	3.2 GHz	4MB								
Graphics	Intel HD Graphics 4400 or 5500 in processor					Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic						
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader						
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)						
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus						
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant						
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card			vPro (optional)	Intel vPro Technology						
WWAN (optional)	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor						
	Upg:		Wireless WAN upgradable			Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card			External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 10 Pro 64						
							Win8.1 P64: Windows 8.1 64-bit						
							Win10 P64: Windows 8.1 Pro 64-bit						
							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

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-Display touch	Storage	M.2 SSD	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)
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					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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²				
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-4300U		1.9 GHz	2.9 GHz				Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-5010U		2.1 GHz	-				Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	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						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic			
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus				
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant				
WLAN ⁴	11b/g/n+BT:	ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				vPro (optional)	Intel vPro Technology				
WWAN (optional)	Upg:	Wireless WAN upgradeable				Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
SIM card (opt)	EM7345:	Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
	AT&T® or Verizon® LTE (4G), contract required with service provider					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	
						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

(CB2-8) © Lenovo

ThinkPad T450 20BU

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-touch	Storage	M.2 SSD	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)	
20BU0000US	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20BU0006US	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20BU0009US	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
20BU000AUS	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
20BU000CUS	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
20BU000GUS	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
20BU000DUS	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
20BU000HUS	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
20BU00C4US	i5-5200U	No	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	1-depot	No	08/15
20BU00C5US	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 DG Win7	1-depot	No	08/15
20BU00C6US	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	08/15
20BU00C7US	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	08/15
20BU00C8US	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	08/15
20BU00CRUS	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
20BU00CTUS	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
20BU00CWUS	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
20BU00CPUS	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

• 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					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															
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell											
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg											
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg											
	i3-5010U		2.1 GHz	-				4MB	Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic												
	i5-5200U		2.2 GHz	2.7 GHz						Smart card reader Optional: Smart card reader												
	i5-5300U		2.3 GHz	2.9 GHz							Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)											
	i7-5500U		2.4 GHz	3 GHz	Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)																	
	i7-5600U		2.6 GHz	3.2 GHz				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														
Graphics							Intel HD Graphics 4400 or 5500 in processor					Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch										
Chipset						Intel SoC (System on Chip) platform					Security Power-on password, hard disk password, supervisor password, security keyhole											
Memory					16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Security chip Trusted Platform Module, TCG 1.2-compliant												
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								vPro (optional) Intel vPro Technology									
Multi-touch (opt)					Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits							Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor										
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						Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)											
M.2 SSD (opt)					Single-sided M.2 SSD, via M.2 card slot					External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)												
Optical					None								Max battery life ¹⁰									
Ethernet					Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)							Models		3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh						
Bluetooth™					Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery life						10.08 hr	14.78 hr	19.78 hr			
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					AC adapter										45W AC adapter, 65W Slim AC adapter, or 65W AC adapter		
WWAN (optional)					Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card								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		
SIM card (opt)					AT&T® or Verizon® LTE (4G), contract required with service provider							Win8.1 64: Win8.1 P64: Win10 P64:		Windows 8.1 64-bit Windows 8.1 Pro 64-bit 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

(CB2-3) © Lenovo

ThinkPad T450 20BU (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-Display	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)	Ann date
20BU0008US	i5-5300U	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

• 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					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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	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								
	i7-5600U		2.6 GHz	3.2 GHz	4MB							
Graphics	Intel HD Graphics 4400 or 5500 in processor					Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus					
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card			vPro (optional)	Intel vPro Technology					
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 10 Pro 64					
							Win8.1 P64: Windows 8.1 64-bit					
							Win10 P64: Windows 8.1 Pro 64-bit					
							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

(CB2-4) © Lenovo

ThinkPad T450 20BU (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-Display 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)
20BU00CNUS	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
20BU00CSUS	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
20BU00CUUS	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
20BU00CMUS	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
20BU00CQUS	i7-5600U	vPro	HD 5500	4GBx1	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
20BU00CVUS	i5-5300U	vPro	HD 5500	4GBx1	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					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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i5-4300U		1.9 GHz	2.9 GHz				Multi-touch		4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	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								
	i7-5600U	2.6 GHz	3.2 GHz	4MB								
Graphics	Intel HD Graphics 4400 or 5500 in processor						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus					
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card			vPro (optional)	Intel vPro Technology					
WWAN (optional)	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card			Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
	Upg:		Wireless WAN upgradeable			Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card			External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 10 Pro 64				
							Win8.1 P64:	Windows 8.1 64-bit				
							Win10 P64:	Windows 8.1 Pro 64-bit				
						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

(CB2-9) © Lenovo

ThinkPad T450 20BU (Onsite)

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)	Global	Ann date (m/y)
20BU0002US	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-onsite OID	Yes	01/15
20BU0003US	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-onsite OID	Yes	01/15
20BU0005US	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-onsite OID	Yes	01/15
20BU000BUS	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-onsite OID	Yes	01/15
20BU000EUS	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-onsite OID	Yes	01/15
20BU000FUS	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-onsite OID	Yes	01/15
20BU0001US	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-onsite OID	Yes	01/15
20BU0007US	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-onsite OID	Yes	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					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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Weight ²			
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-4300U		1.9 GHz	2.9 GHz			Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-5010U		2.1 GHz	-			Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	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					Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits					Camera	HD720p resolution, low light sensitive, fixed focus				
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant				
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					vPro (optional)	Intel vPro Technology				
WWAN (optional)	Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 10 Pro 64 Win8.1 P64: Windows 8.1 64-bit Win10 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

(CB2-5) © Lenovo

ThinkPad T450 20BU (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-Display	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)	Ann date
20BU0004US	i5-5300U	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-onsite	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						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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²			
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600	Models		No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-4300U		1.9 GHz	2.9 GHz			Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-5010U		2.1 GHz	-			Multi-touch		3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	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						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						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)			
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						Camera	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
WWAN (optional)	Upg:		Wireless WAN upgradable				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				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
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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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Lenovo® ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460

ThinkPad T460 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)								Smart card reader Media reader Ports WiGig dock (opt)	Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector WiGig dock, coexists with WWAN				
	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)								Security Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures Intel vPro Technology Optional: Swipe style fingerprint reader on the keyboard bezel				
Chipset	Intel SoC (System on Chip) platform								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
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	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
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits								discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr
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 (WE only)								AC adapter	45W or 65W Slim AC adapter				
Optical	None								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)			
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								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)				
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)								Mil-Spec test	MIL-STD-810G military certification				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant				
Dimensions ³ Weight ²	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm													
									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													

ThinkPad T460 20FN (TopSeller)

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)
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 (i7-6500U for discrete models only)						Dimensions ³ Weight ²	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell		3-cell + 3-cell		3-cell + 6-cell	
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg		3.82 lb / 1.73 kg		4.13 lb / 1.87 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg		3.88 lb / 1.76 kg		4.20 lb / 1.90 kg	
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg		3.90 lb / 1.77 kg		4.22 lb / 1.91 kg	
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg		3.97 lb / 1.80 kg		4.28 lb / 1.94 kg	
	i7-6600U		2.6 GHz	3.4 GHz	4MB									
						Case material	Glass-Fiber Reinforced Plastic							
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)						Smart card reader	Optional: Smart card reader						
Chipset	Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						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						
Memory							WiGig dock (opt)	WiGig dock, coexists with WWAN						
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 In-cell touch, supports 10-finger gesture, 250 nits						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						
Multi-touch (opt)							Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad						
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 (WE only)						Security	Power-on password, hard disk password, supervisor password, security keyhole						
							Security chip	Trusted Platform Module, TCG 1.2-compliant						
Optical	None						vPro (optional)	Intel vPro Technology						
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						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)						
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						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		
Bluetooth™							AC adapter	45W or 65W Slim AC 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)						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64					
								Win10 P64:	Windows 10 Pro 64					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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 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 (i7-6500U for discrete models only)						Dimensions ³ Weight ²	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell		3-cell + 3-cell	3-cell + 6-cell	
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg		3.82 lb / 1.73 kg	4.13 lb / 1.87 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg		3.88 lb / 1.76 kg	4.20 lb / 1.90 kg	
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg		3.90 lb / 1.77 kg	4.22 lb / 1.91 kg	
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg		3.97 lb / 1.80 kg	4.28 lb / 1.94 kg	
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)						Case material	Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt)	WiGig dock, coexists with WWAN					
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 (WE only)						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
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						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security	Power-on password, hard disk password, supervisor password, security keyhole					
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)						Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

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Lenovo® ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p

ThinkPad T440p Platform Specifications

Product Specifications Reference (PSREF)

Positioning	Mainstream performance; two spindles								Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor								Chipset	Mobile Intel QM87 Express Chipset				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Smart card reader	<i>Optional:</i> Smart card reader				
	i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
	i3-4100M			2.5 GHz	-	3MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector				
	i5-4200M			2.5 GHz	3.1 GHz	3MB			WLAN ⁴	<i>One of the following, configurable by model:</i> - 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				
	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	WWAN (<i>optional</i>)	<i>One of the following, configurable by model (mutually exclusive with M.2 SSD):</i> - 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)								
	i7-4700MQ	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								SIM card (<i>optional</i>)	<i>One of the following, configurable by model:</i> - 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				
Optical Ultrabay	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter				
Storage	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™								Ethernet	Intel Ethernet Connection I217-LM (Clarkville)				
M.2 SSD	<i>All:</i> removable, upgradeable, supports the second disk, Shock Mounted <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								NFC	<i>Optional:</i> Near Field Communication				
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Security	Power-on password, hard disk password, supervisor password, security keyhole				
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								Security chip vPro (<i>optional</i>)	Trusted Platform Module, TCG 1.2-compliant				
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; <i>Max resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable)								Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor				
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch								Limited warranty ¹²	<i>One of the following, configurable by model:</i> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)				
ThinkLight™	None								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)				
Dimensions ³	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm								Mil-Spec test	MIL-STD-810G military certification				
Weight ²												Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	
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														
</														

ThinkPad T440p 20AN (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	Battery 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						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	i5-4200M		2.5 GHz	3.1 GHz	3MB			AC adapter 65-watt, 90-watt, or 135-watt AC adapter		
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight		
	i5-4300M		2.6 GHz	3.3 GHz	3MB			UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i5-4330M		2.8 GHz	3.5 GHz	3MB			Chipset Mobile Intel QM87 Express Chipset		
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Smart card reader Optional: Smart card reader		
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-4710MQ		2.5 GHz	3.5 GHz	6MB			Ports Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			WLAN ⁴ 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card		
i7-4810MQ	2.8 GHz		3.8 GHz	6MB	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card					
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	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			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (optional) Upg: Wireless WAN upgradable			
Optical Ultrabay Storage	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						EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS			
M.2 SSD	Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						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			
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						Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet Intel Ethernet Connection I217-LM (Clarkville)			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						NFC Optional: Near Field Communication			
Dimensions ³	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Security Power-on password, hard disk password, supervisor password, security keyhole			
Weight ²							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			
Case material							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			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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

(OA1-1) © Lenovo

ThinkPad T440p 20AN (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	Camera	Backlit key-board	Finger-print reader	NFC	Battery 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						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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	4	2.9 GHz	3.6 GHz	4MB					
	i7-4700MQ		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 Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (optional) <i>Upg:</i> Wireless WAN upgradable <i>EM7345:</i> Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS <i>N5321:</i> Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS			
M.2 SSD							SIM card (optional) <i>Lenovo:</i> Lenovo SIM, out-of-box service, pay-as-you-go, no contract required <i>Select:</i> User selectable, contract required with service provider			
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768), 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Bluetooth™ Ethernet NFC <i>Optional:</i> Near Field Communication			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security Security chip vPro (optional) Fingerprint reader			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Preload			
	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						Win8 / 8.1 64: Win8 / 8.1 P64: Win10 P64:			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Windows 8 / 8.1 64-bit Windows 8 / 8.1 Pro 64-bit 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						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	i5-4200M		2.5 GHz	3.1 GHz	3MB			65-watt, 90-watt, or 135-watt AC adapter		
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Keyboard		
	i5-4300M		2.6 GHz	3.3 GHz	3MB			6-row, spill-resistant, multimedia Fn keys, optional LED backlight		
	i5-4330M		2.8 GHz	3.5 GHz	3MB			TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Chipset		
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Mobile Intel QM87 Express Chipset		
	i7-4710MQ		2.5 GHz	3.5 GHz	6MB			Smart card reader		
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Optional: Smart card reader		
i7-4810MQ	2.8 GHz		3.8 GHz	6MB	Media reader					
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	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		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						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		
Optical Ultrabay Storage	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						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		
M.2 SSD	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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
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						Ethernet	Intel Ethernet Connection I217-LM (Clarkville)		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						NFC	Optional: Near Field Communication		
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Dimensions ³	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Weight ²							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		
Case material	Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic							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		
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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)

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	Battery 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						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600	Integrated	7.4 hr	13.2 hr	
	i3-4100M		2.5 GHz	-	3MB		Optimus	7.2 hr	12.7 hr	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		AC adapter 65-watt, 90-watt, or 135-watt AC adapter			
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
	i5-4300M		2.6 GHz	3.3 GHz	3MB		UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Chipset Mobile Intel QM87 Express Chipset			
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB		Smart card reader <i>Optional:</i> Smart card reader			
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB		Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)			
	i7-4710MQ		2.5 GHz	3.5 GHz	6MB		Ports Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector			
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB		WLAN ⁴			
i7-4810MQ	2.8 GHz		3.8 GHz	6MB	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card					
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card					
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card			
Optical Ultrabay Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card			
M.2 SSD							WWAN (optional) <i>Upg:</i> Wireless WAN upgradable			
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS						EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						SIM card (optional) <i>Lenovo:</i> Lenovo SIM, out-of-box service, pay-as-you-go, no contract required <i>Select:</i> User selectable, contract required with service provider			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
Case material							Ethernet Intel Ethernet Connection I217-LM (Clarkville)			
							NFC <i>Optional:</i> Near Field Communication			
							Security Power-on password, hard disk password, supervisor password, security keyhole			
Audio support							Security chip Trusted Platform Module, TCG 1.2-compliant			
							vPro (optional) Intel vPro Technology			
							Fingerprint reader <i>Optional:</i> 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

ThinkPad T440p 20AW

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)
20AW0090US	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	6	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AW0091US	i5-4300M	vPro	HD 4600	8GBx1	14" HD+	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	6	65W	Win8.1 DG Win7	3-depot	Yes	04/14
20AW004BUS	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	Yes	11/13
20AW004DUS	i5-4300M	vPro	HD 4600	4GBx2	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	Yes	11/13
20AW004HUS	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	Yes	11/13
20AW004JUS	i5-4300M	vPro	HD 4600	4GBx2	14" FHD IPS	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	Yes	11/13
20AW004KUS	i5-4300M	vPro	HD 4600	4GBx2	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-depot	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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	4	2.9 GHz	3.6 GHz	4MB					
	i7-4700MQ		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 Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card									
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card									
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 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 Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm									
	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									
							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)			
							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

(OA1-3) © Lenovo

ThinkPad T440p 20AW (Windows 8)

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)
20AW0000US	i5-4300M	vPro	HD 4600	4GBx1	14" HD	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW0001US	i5-4300M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW0005US	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW0007US	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW0008US	i5-4300M	vPro	HD 4600	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000CUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000DUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000HUS	i7-4600M	vPro	HD 4600	4GBx1	14" FHD IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000KUS	i7-4600M	vPro	HD 4600	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000MUS	i7-4600M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20AW000QUS	i7-4600M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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	4	2.9 GHz	3.6 GHz	4MB					
	i7-4700MQ		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 Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (optional) <i>Upg:</i> Wireless WAN upgradable <i>EM7345:</i> Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS <i>N5321:</i> Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS			
M.2 SSD							SIM card (optional) <i>Lenovo:</i> Lenovo SIM, out-of-box service, pay-as-you-go, no contract required <i>Select:</i> User selectable, contract required with service provider			
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768), 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Bluetooth™ Ethernet NFC Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Intel Ethernet Connection I217-LM (Clarkville) <i>Optional:</i> Near Field Communication			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security Security chip vPro (optional) Fingerprint reader Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Preload <i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite			
	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									

See footnotes for more detailed information

(OA1-4) © Lenovo

ThinkPad T440p 20AW (Optimus)

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)
20AW008YUS	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	Yes	04/14
20AW0092US	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	Yes	04/14
20AW0094US	i7-4600M	vPro	GT 730M	8GBx1	14" HD+	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	Yes	04/14
20AW004AUS	i7-4600M	vPro	GT 730M	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-depot	Yes	11/13
20AW004CUS	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	Yes	11/13
20AW004FUS	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	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr	
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr	
	i5-4200M		2.5 GHz	3.1 GHz	3MB			AC adapter 65-watt, 90-watt, or 135-watt AC adapter			
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
	i5-4300M		2.6 GHz	3.3 GHz	3MB			UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			
	i5-4330M		2.8 GHz	3.5 GHz	3MB			Chipset Mobile Intel QM87 Express Chipset			
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Smart card reader	Optional: Smart card reader		
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-4710MQ		2.5 GHz	3.5 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			WLAN ⁴	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card		
i7-4810MQ	2.8 GHz		3.8 GHz	6MB	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card						
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	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				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (optional) Upg: Wireless WAN upgradable				
Optical Ultrabay Storage	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						EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS				
M.2 SSD							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				
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						Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter				
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet Intel Ethernet Connection I217-LM (Clarkville)				
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						NFC Optional: Near Field Communication				
Dimensions ³	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Security Power-on password, hard disk password, supervisor password, security keyhole				
Weight ²	Models		6-cell		9-cell		Security chip Trusted Platform Module, TCG 1.2-compliant				
	Integrated		4.70 lb / 2.14kg		4.92 lb / 2.23kg		vPro (optional) Intel vPro Technology				
	Optimus		4.77 lb / 2.16kg		5.10 lb / 2.31kg		Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
Case material	Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic						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				
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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

(OA1-5) © Lenovo

ThinkPad T440p 20AW (Optimus) - Windows 8

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)
20AW0006US	i7-4600M	vPro	GT 730M	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20AW0009US	i7-4600M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20AW000AUS	i7-4600M	vPro	GT 730M	4GBx1	14" FHD IPS	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20AW000GUS	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20AW000RUS	i7-4600M	vPro	GT 730M	4GBx1	14" FHD IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	i5-4200M		2.5 GHz	3.1 GHz	3MB			65-watt, 90-watt, or 135-watt AC adapter		
	i5-4210M		2.6 GHz	3.2 GHz	3MB			Keyboard		
	i5-4300M		2.6 GHz	3.3 GHz	3MB			6-row, spill-resistant, multimedia Fn keys, optional LED backlight		
	i5-4330M		2.8 GHz	3.5 GHz	3MB			TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Chipset		
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Mobile Intel QM87 Express Chipset		
	i7-4710MQ		2.5 GHz	3.5 GHz	6MB			Smart card reader		
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Optional: Smart card reader		
i7-4810MQ	2.8 GHz		3.8 GHz	6MB	Media reader					
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	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		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						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			
Optical Ultrabay Storage	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						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			
M.2 SSD							Bluetooth™ Ethernet NFC			
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						Security Security chip vPro (optional) Fingerprint reader			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Preload			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						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			
	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						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			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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

(OA1-6) © Lenovo

ThinkPad T440p 20AW (Onsite)

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)
20AW0046US	i5-4300M	vPro	HD 4600	4GBx2	14" FHD IPS	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-onsite	Yes	11/13
20AW0048US	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-onsite	Yes	11/13
20AW0049US	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-onsite	Yes	11/13
20AW004LUS	i5-4300M	vPro	HD 4600	4GBx2	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-onsite	Yes	11/13
20AW004MUS	i5-4300M	vPro	HD 4600	4GBx2	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 DG Win7	3-onsite	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600	Integrated	7.4 hr	13.2 hr		
	i3-4100M		2.5 GHz	-	3MB		Optimus	7.2 hr	12.7 hr		
	i5-4200M		2.5 GHz	3.1 GHz	3MB		AC adapter 65-watt, 90-watt, or 135-watt AC adapter				
	i5-4210M		2.6 GHz	3.2 GHz	3MB		Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
	i5-4300M		2.6 GHz	3.3 GHz	3MB		UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch				
	i5-4330M	2.8 GHz	3.5 GHz	3MB	Chipset Mobile Intel QM87 Express Chipset						
	i7-4600M	2.9 GHz	3.6 GHz	4MB	Smart card reader Optional: Smart card reader						
	i7-4700MQ	2.4 GHz	3.4 GHz	6MB	Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)						
i7-4710MQ	2.5 GHz	3.5 GHz	6MB	Ports Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector							
i7-4800MQ	2.7 GHz	3.7 GHz	6MB	WLAN ⁴ 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card							
i7-4810MQ	2.8 GHz	3.8 GHz	6MB	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card							
i7-4900MQ	2.8 GHz	3.8 GHz	8MB	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					
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (optional) Upg: Wireless WAN upgradable				
Optical Ultrabay Storage	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						EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS				
M.2 SSD							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				
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						Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter				
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet Intel Ethernet Connection I217-LM (Clarkville)				
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						NFC Optional: Near Field Communication				
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm						Security Power-on password, hard disk password, supervisor password, security keyhole				
		Models	6-cell	9-cell					Security chip Trusted Platform Module, TCG 1.2-compliant		
		Integrated	4.70 lb / 2.14kg	4.92 lb / 2.23kg					vPro (optional) Intel vPro Technology		
		Optimus	4.77 lb / 2.16kg	5.10 lb / 2.31kg					Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
Case material	Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic						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				
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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

(OA1-7) © Lenovo

ThinkPad T440p 20AW (Onsite) - Windows 8

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)
20AW0002US	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20AW0003US	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20AW0004US	i5-4300M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20AW000EUS	i5-4300M	vPro	HD 4600	4GBx1	14" HD+	128G SSD	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20AW000JUS	i7-4600M	vPro	HD 4600	4GBx1	14" HD	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20AW000LUS	i7-4600M	vPro	HD 4600	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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 Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card									
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card									
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 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 Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm									
	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									
							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

(OA1-8) © Lenovo

ThinkPad T440p 20AW (Optimus) - Onsite

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)
20AW0047US	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-onsite	Yes	11/13
20AW004EUS	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-onsite	Yes	11/13
20AW004GUS	i7-4600M	vPro	GT 730M	4GBx1	14" FHD IPS	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 DG Win7	3-onsite	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor					Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB		DDR3L-1600	Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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	4	2.9 GHz	3.6 GHz	4MB					
	i7-4700MQ		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					AC adapter	65-watt, 90-watt, or 135-watt AC adapter			
Optical Ultrabay Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					Chipset	Mobile Intel QM87 Express Chipset			
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS					Smart card reader	<i>Optional:</i> Smart card reader			
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)					Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm					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			
Case material	Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic					WWAN (<i>optional</i>)	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 (<i>optional</i>)	Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider			
						Bluetooth™ Ethernet NFC	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Intel Ethernet Connection I217-LM (Clarkville) <i>Optional:</i> Near Field Communication			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					Security Security chip vPro (<i>optional</i>) Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> 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

(OA1-9) © Lenovo

ThinkPad T440p 20AW (Optimus) - Onsite (Windows 8)

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)
20AW000BUS	i7-4600M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20AW000PUS	i5-4300M	vPro	GT 730M	4GBx1	14" HD+	500G 7200	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor					Battery type Max battery life ¹⁰	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	6-cell	9-cell
	i3-4000M	2	2.4 GHz	-	3MB		DDR3L-1600	Integrated	7.4 hr	13.2 hr
	i3-4100M		2.5 GHz	-	3MB			Optimus	7.2 hr	12.7 hr
	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	4	2.9 GHz	3.6 GHz	4MB					
	i7-4700MQ		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					AC adapter	65-watt, 90-watt, or 135-watt AC adapter			
Optical Ultrabay Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch			
M.2 SSD	<i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card					Chipset	Mobile Intel QM87 Express Chipset			
Widescreen display	<i>Some:</i> 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS					Smart card reader	<i>Optional:</i> Smart card reader			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)					Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector			
Dimensions ³ Weight ²	14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm					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			
Case material	Models		6-cell		9-cell		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		
	Integrated		4.70 lb / 2.14kg		4.92 lb / 2.23kg		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		
	Optimus		4.77 lb / 2.16kg		5.10 lb / 2.31kg		Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
	Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic					Ethernet	Intel Ethernet Connection I217-LM (Clarkville)			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					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

(OA1-10) © Lenovo



Lenovo® ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p

ThinkPad T460p Platform Specifications

Product Specifications Reference (PSREF)

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		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	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle <i>Some:</i> 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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high <i>Some:</i> 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	<i>One of the following, configurable by model:</i> • 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)	<i>One of the following, configurable by model:</i> • 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	<i>Models</i>		<i>3-cell</i>		<i>6-cell</i>				
	<i>Integrated model</i>		3.99 lb / 1.81 kg		4.70 lb / 2.13 kg				
	<i>discrete model</i>		4.04 lb / 1.83 kg		4.75 lb / 2.15 kg				
Case material	<i>Display cover:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic; <i>Bottom:</i> Magnesium alloy								
Smart card reader				<i>Optional:</i> 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				<i>Optional:</i> 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)									
AC adapter				90W or 135W AC adapter					
Preload				Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				Windows 10 Pro 64	
				• Lenovo Solution Center				• Lenovo Solution Center	
				• ThinkVantage Product Recovery				• Lenovo Companion	
				• Rescue and Recovery™				• Lenovo Setting	
				• ThinkVantage System Update				• Microsoft Office preloaded;	
				• Adobe® Reader®				purchase a product key to activate	
				• Microsoft® Office preloaded;				• McAfee® LiveSafe™ (30-day trial)	
				purchase a product key to activate					
				• McAfee® LiveSafe™ (30-day trial)					
Limited warranty ¹²				<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 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)

Product Specifications Reference (PSREF)

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	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						Dimensions ³ Weight ²	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	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						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy			
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight			
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
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						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
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)						vPro (optional)	Intel vPro Technology			
1							Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell		6-cell
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model	3.99 lb / 1.81 kg		4.70 lb / 2.13 kg
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model	4.04 lb / 1.83 kg		4.75 lb / 2.15 kg
	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						Case material	PC/ABS plastic; Bottom: Magnesium alloy			
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight			
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
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						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
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)						vPro (optional)	Intel vPro Technology			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model	3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model	4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	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						Case material	PC/ABS plastic; Bottom: Magnesium alloy			
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						Security	Power-on password, hard disk password, supervisor password, security keyhole			
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						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
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)						Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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)

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	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						Case material	PC/ABS plastic; Bottom: Magnesium alloy				
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader				
Memory	32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
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						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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)						vPro (optional)	Intel vPro Technology				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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

(TL1-4) © Lenovo



Lenovo® ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s



Lenovo ThinkPad T440s

ThinkPad T440s Platform Specifications					Product Specifications Reference (PSREF)							
Positioning	Premium Ultrabook™ or Thinbook; one spindle				WLAN ⁴	One of the following, configurable by model:						
Processor	4th Generation Intel® Core™ i5 / i7 Processor				WWAN (optional)	One of the following, configurable by model (mutually exclusive with M.2 SSD):						
	Processor Number	# of Cores	# of Threads	Base Frequency		• Wireless WAN upgradable						
	i5-4200U	2	4	1.6 GHz		• Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)						
	i5-4210U			1.7 GHz		• Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)						
	i5-4300U			1.9 GHz		• Wireless WAN, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)						
	i7-4600U			2.1 GHz								
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket				SIM card (optional)	One of the following, configurable by model:						
Optical Storage	None 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 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				Bluetooth™ Ethernet	• AT&T® or Verizon® LTE (4G), contract required with service provider (US models)						
M.2 SSD						• Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)						
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				NFC	Power-on password, hard disk password, supervisor password, security keyhole						
Multi-touch Camera (optional)	Some: Capacitive-type multi-touch, supports 10-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus				Security Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant						
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)				Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor						
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch				Limited warranty ¹²	One of the following, configurable by model:						
ThinkLight™	None				Preload	• 1-year depot repair service						
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					• 3-year/1-yr battery depot repair service						
Weight ²	Models 3-cell + 3-cell 3-cell + 6-cell					• 3-year/1-yr battery limited onsite service ²⁴						
	Non-MultiTouch 3.5 lb / 1.59kg 3.9 lb / 1.77kg					• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)						
	MultiTouch 3.9 lb / 1.76 4.2 lb / 1.94kg											
Case material	Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy				Mil-Spec test	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit						
Internal battery	Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication					Some: Windows 8 / 8.1 Pro 64-bit						
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication					• Lenovo Solution Center						
Max battery life ¹⁰	Models 3-cell + 3-cell 3-cell + 6-cell 47.5Wh 3-cell + 6-cell 72Wh					• Lenovo Support						
	Integrated 8.4 hr 12.6 hr 16.8 hr					• Lenovo Companion						
	Optimus 8.3 hr 12.4 hr 16.6 hr					• ThinkVantage System Update						
AC adapter	45-watt (integrated models only), 65-watt, or 65-watt Slim AC adapter				Environment	• Lenovo Reach (Windows 8.1 model)						
Chipset	Intel SoC (System on Chip) platform											

ThinkPad T440s 20AQ (TopSeller)

Product Specifications Reference (PSREF)

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	Camera	Backlit keyboard	Fingerprint 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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch		
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	None			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Chipset Intel SoC (System on Chip) platform			
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Smart card reader <i>Optional:</i> Smart card reader			
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
Optical Storage	None						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector		
	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high						WLAN ⁴	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card		
M.2 SSD	<i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS							7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
	<i>Some:</i> SSHD with 8GB NAND flash memory							7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
	<i>Some:</i> Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader							7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
		<i>Some:</i> Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card						WWAN (<i>optional</i>)	Upg: Wireless WAN upgradable	
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio						EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
Multi-touch	<i>Some:</i> 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio						SIM card (<i>optional</i>)			
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider			
Graphics	Intel HD Graphics 4400 in processor						Select: User selectable, contract required with service provider			
Dimensions ³	14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Weight ²	14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)		
	Models		3-cell + 3-cell		3-cell + 6-cell		vPro model: Intel Ethernet Connection I218-LM (Clarkville)			
	Non-MultiTouch		3.5 lb / 1.59kg		3.9 lb / 1.77kg		Optional: Near Field Communication			
	MultiTouch		3.9 lb / 1.76kg		4.2 lb / 1.94kg		Security			
Case material	Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy						Power-on password, hard disk password, supervisor password, security keyhole			
Internal battery	Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Security chip			
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Trusted Platform Module, TCG 1.2-compliant			
Max battery life ¹⁰	Battery configuration		3-cell + 3-cell		3-cell + 6-cell 47.5Wh		vPro (<i>optional</i>)			
	Battery life		8.4 hr		12.6 hr		Intel vPro Technology			
							Fingerprint reader			
AC adapter	45-watt AC adapter						Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						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

(STG1-1) © Lenovo

ThinkPad T440s 20AQ (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

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	Camera	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					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch None	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache			Memory Types
	i5-4200U	2	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	DDR3L-1600			
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 Storage	None 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							
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) Optional: Near Field Communication		
NFC								
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

ThinkPad T440s 20AR

Product Specifications Reference (PSREF)

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AR006RUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20AR006SUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20AR003XUS	i5-4300U	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	Yes	11/13
20AR0040US	i5-4300U	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	Yes	11/13
20AR0042US	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	Yes	11/13
20AR0043US	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	Yes	11/13
20AR0045US	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	Yes	11/13
20AR0049US	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	Yes	11/13
20AR006TUS	i7-4600U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20AR006UUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 DG Win7	3-depot	Yes	04/14
20AR0045US	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-depot	Yes	11/13
20AR003YUS	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	Yes	11/13
20AR0047US	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	Yes	11/13

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch None	
	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						Chipset	Intel SoC (System on Chip) platform	
Optical Storage	None <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader <i>Some:</i> Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card						Smart card reader	<i>Optional:</i> 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	
M.2 SSD							WWAN (<i>optional</i>)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio						SIM card (<i>optional</i>)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider	
Multi-touch	<i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) <i>Optional:</i> Near Field Communication	
Graphics	Intel HD Graphics 4400 in processor						NFC	Security Security chip vPro (<i>optional</i>) Fingerprint reader	
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						Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor		
Weight ²	Models		3-cell + 3-cell		3-cell + 6-cell		Preload		
	Non-MultiTouch		3.5 lb / 1.59kg		3.9 lb / 1.77kg		Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit		
	MultiTouch		3.9 lb / 1.76kg		4.2 lb / 1.94kg		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		
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								

See footnotes for more detailed information

(STG1-3) © Lenovo

ThinkPad T440s 20AR (Windows 8)

Product Specifications Reference (PSREF)

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	Camera	Backlit keyboard	Fingerprint reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AR0059US	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	Yes	01/14
20AR005AUS	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	Yes	01/14
20AR000VUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR000WUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR0013US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	None	None	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR0014US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR001CUS	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 P64	3-depot	Yes	09/13
20AR001EUS	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR001FUS	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	None	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR001GUS	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	Yes	09/13
20AR001HUS	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 P64	3-depot	Yes	09/13
20AR001MUS	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 P64	3-depot	Yes	09/13
20AR0057US	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	Yes	01/14
20AR0058US	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	Yes	01/14
20AR000UUS	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	09/13
20AR0015US	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 P64	3-depot	Yes	09/13
20AR0017US	i7-4600U	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 P64	3-depot	Yes	09/13
20AR0018US	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 P64	3-depot	Yes	09/13
20AR001AUS	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	Yes	09/13
20AR001QUS	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 P64	3-depot	Yes	09/13

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600		None
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Chipset	Intel SoC (System on Chip) platform
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Smart card reader	Optional: Smart card reader
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Optical Storage	None 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					Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
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					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	
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					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture					SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Bluetooth™ Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
Graphics	Intel HD Graphics 4400 in processor					NFC	Security Security chip vPro (optional) Fingerprint reader	
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						Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell			Preload	
	Non-MultiTouch	3.5 lb / 1.59kg		3.9 lb / 1.77kg			Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	MultiTouch	3.9 lb / 1.76kg		4.2 lb / 1.94kg			Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
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				
	Battery life	8.4 hr		12.6 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						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	

See footnotes for more detailed information

(STG1-4) © Lenovo

ThinkPad T440s 20AR (Onsite)

Product Specifications Reference (PSREF)

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	Camera	Backlit keyboard	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AR003TUS	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-onsite	Yes	11/13
20AR003UUS	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-onsite	Yes	11/13
20AR003VUS	i5-4300U	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-onsite	Yes	11/13
20AR0046US	i5-4300U	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-onsite	Yes	11/13
20AR0048US	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-onsite	Yes	11/13
20AR004AUS	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-onsite	Yes	11/13
20AR0031WUS	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-onsite	Yes	11/13
20AR0041US	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-onsite	Yes	11/13
20AR0044US	i7-4600U	vPro	HD 4400	4+4GB	14" FHD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 DG Win7	3-onsite	Yes	11/13

- For detailed platform specifications, please see [ThinkPad T440s Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	Optional: Smart card reader
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket					Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Optical Storage	None 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					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	
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					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
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					SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
Graphics	Intel HD Graphics 4400 in processor					NFC	Security Security chip vPro (optional) Fingerprint reader	
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					Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
Weight ²	Models	3-cell + 3-cell		3-cell + 6-cell		Preload		
	Non-MultiTouch	3.5 lb / 1.59kg		3.9 lb / 1.77kg		Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit		
	MultiTouch	3.9 lb / 1.76kg		4.2 lb / 1.94kg		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		
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							

See footnotes for more detailed information

(STG1-5) © Lenovo

ThinkPad T440s 20AR (Onsite) - Windows 8

Product Specifications Reference (PSREF)

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	Camera	Backlit keyboard	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AR000TUS	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 P64	3-onsite	Yes	09/13
20AR000XUS	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 P64	3-onsite	Yes	09/13
20AR0010US	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 P64	3-onsite	Yes	09/13
20AR0012US	i5-4300U	vPro	HD 4400	4+0GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	None	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20AR0016US	i5-4300U	vPro	HD 4400	4+0GB	14" FHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20AR001BUS	i5-4300U	vPro	HD 4400	4+4GB	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	None	None	3+3	45W	Win8 P64	3-onsite	Yes	09/13
20AR001DUS	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 P64	3-onsite	Yes	09/13
20AR000YUS	i7-4600U	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 P64	3-onsite	Yes	09/13
20AR0011US	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 P64	3-onsite	Yes	09/13

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 Processor						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	ThinkLight™	None	
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Chipset	Intel SoC (System on Chip) platform	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	Optional: Smart card reader	
i7-4600U	2.1 GHz		3.3 GHz	4MB	Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)		
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Optical Storage	None 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						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	
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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
Graphics	Intel HD Graphics 4400 in processor						NFC	Security	
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							Power-on password, hard disk password, supervisor password, security keyhole	
Weight ²	Models		3-cell + 3-cell		3-cell + 6-cell		Security chip	Trusted Platform Module, TCG 1.2-compliant	
	Non-MultiTouch		3.5 lb / 1.59kg		3.9 lb / 1.77kg		vPro (optional)	Intel vPro Technology	
	MultiTouch		3.9 lb / 1.76kg		4.2 lb / 1.94kg		Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Case material	Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy						Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
Internal battery	Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication							Win8 / 8.1 64: Windows 8 / 8.1 64-bit	
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication							Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
Max battery life ¹⁰	Battery configuration		3-cell + 3-cell		3-cell + 6-cell 47.5Wh				
	Battery life		8.4 hr		12.6 hr		16.8 hr		
AC adapter	45-watt AC adapter						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack								

See footnotes for more detailed information

(STG1-6) © Lenovo



Lenovo® ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s

ThinkPad T450s Platform Specifications								Product Specifications Reference (PSREF)											
Processor	5th Generation Intel® Core™ i5 / i7 Processor							Smart card reader <i>Optional:</i> 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											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types												
	i5-5200U	2	4	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, 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)							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 <i>(optional)</i> Intel vPro Technology Fingerprint reader <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor Internal battery <i>Optional:</i> 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 <table> <tr> <th>Models</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr> <tr> <td>Battery life</td><td>10.16 hr</td><td>14.9 hr</td><td>19.9 hr</td></tr> </table>				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
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																
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	<i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS																		
Multi-touch <i>(opt)</i>	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits																		
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory																		
M.2 SSD <i>(opt)</i>	Single-sided M.2 SSD, via M.2 card slot																		
Optical	None																		
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)																		
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																		
WLAN ⁴	<i>One of the following, configurable by model:</i> • 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 <i>(optional)</i>	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card																		
SIM card <i>(opt)</i>	AT&T® or Verizon® LTE (4G), contract required with service provider																		
Dimensions ³	<i>14.0" (WxDxH):</i> 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm <i>14.0" Touch (WxDxH):</i> 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																			

Product Specifications Reference (PSREF)

ThinkPad T450s 20BX (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	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)
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						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						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)				
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
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						Security	Power-on password, hard disk password, supervisor password, security keyhole				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Optical	None						vPro (optional)	Intel vPro Technology				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				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	
WWAN (optional)	Upg:		Wireless WAN upgradable				AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				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				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider							Win8.1 64:				
Camera	HD720p resolution, low light sensitive, fixed focus							Win8.1 P64:				
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							Win10 P64:				
							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 T450s 20BX (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint 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						Dimensions ³ Weight ²	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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB							
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)	Intel vPro Technology			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
WWAN (optional)	Upg:		Wireless WAN upgradeable				Max battery life ¹⁰	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Battery life	10.16 hr	14.9 hr	19.9 hr
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Camera	HD720p resolution, low light sensitive, fixed focus						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			
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							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

(STG2-2) © Lenovo

ThinkPad T450s 20BX (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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						Dimensions ³	14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm				
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell	
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg	
i7-5600U	2.6 GHz		3.2 GHz	4MB	Multi-touch		3.79 lb / 1.72 kg		4.02 lb / 1.82 kg	4.42 lb / 2.01 kg			
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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 Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						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					
Multi-touch (opt)							UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch					
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						Security	Power-on password, hard disk password, supervisor password, security keyhole					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security chip	Trusted Platform Module, TCG 1.2-compliant					
							vPro (optional)	Intel vPro Technology					
Optical	None						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
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						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			
WWAN (optional)	Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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					
Camera	HD720p resolution, low light sensitive, fixed focus							Win8.1 64: Windows 8.1 64-bit					
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							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

ThinkPad T450s 20BW

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	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)
20BW0004US	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
20BW0006US	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
20BW0009US	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
20BW000BUS	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
20BW000CUS	i5-5300U	vPro	HD 5500	4+4GB	14" FHD 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	01/15
20BW000AUS	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
20BW000HUS	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
20BW000JUS	i7-5600U	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

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)	Intel vPro Technology				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
WWAN (optional)	Upg:		Wireless WAN upgradeable				Max battery life ¹⁰	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Battery life	10.16 hr	14.9 hr	19.9 hr	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
Camera	HD720p resolution, low light sensitive, fixed focus						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				
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							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

(STG2-3) © Lenovo

ThinkPad T450s 20BW (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	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)
20BW0007US	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

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)	Intel vPro Technology				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
WLAN ⁴	11b/g/n+BT: 7265 ac+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
WWAN (optional)	Upg:		Wireless WAN upgradeable				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				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	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
Camera	HD720p resolution, low light sensitive, fixed focus						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			
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							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

(STG2-4) © Lenovo

ThinkPad T450s 20BW (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	M.2 SSD	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)
20BW007NUS	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	Yes	09/15
20BW007PUS	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	Win10 P64	3-depot	Yes	09/15
20BW007MUS	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	Yes	09/15

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²					
	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						Case material		Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Intel SoC (System on Chip) platform						Smart card reader		Optional: Smart card reader			
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports		Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						Keyboard		6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
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						UltraNav™		TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security		Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip		Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)		Intel vPro Technology			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader		Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Internal battery		Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				External battery		Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
WWAN (optional)	Upg:		Wireless WAN upgradeable				Max battery life ¹⁰					
	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						AC adapter		45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Camera	HD720p resolution, low light sensitive, fixed focus						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			
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								Win8.1 64: Win8.1 P64: Win10 P64: Windows 8.1 64-bit Windows 8.1 Pro 64-bit 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

(STG2-8) © Lenovo

ThinkPad T450s 20BW (Onsite)

Product Specifications Reference (PSREF)

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 key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BW0003US	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-onsite OI	Yes	01/15
20BW0005US	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-onsite OI	Yes	01/15
20BW000EUS	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-onsite OI	Yes	01/15
20BW000FUS	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-onsite OI	Yes	01/15
20BW000GUS	i5-5300U	vPro	HD 5500	4+4GB	14" FHD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite OI	Yes	01/15
20BW0008US	i7-5600U	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-onsite OI	Yes	01/15
20BW000DUS	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-onsite OI	Yes	01/15
20BW000LUS	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-onsite OI	Yes	01/15

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)	Intel vPro Technology				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
WLAN ⁴	11b/g/n+BT: 7265 ac+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
WWAN (optional)	Upg:		Wireless WAN upgradeable				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Max battery life ¹⁰	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
Camera	HD720p resolution, low light sensitive, fixed focus						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						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

(STG2-5) © Lenovo

ThinkPad T450s 20BW (Onsite) - Windows 8

Product Specifications Reference (PSREF)

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)	Ann date Global (m/y)
20BW000KUS	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-onsite OID	Yes 01/15

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³ Weight ²	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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Non-touch	3.26 lb / 1.48 kg	3.49 lb / 1.59 kg	3.90 lb / 1.77 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Multi-touch	3.79 lb / 1.72 kg	4.02 lb / 1.82 kg	4.42 lb / 2.01 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB							
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket						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)			
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
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						Security	Power-on password, hard disk password, supervisor password, security keyhole			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None						vPro (optional)	Intel vPro Technology			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
WLAN ⁴	11b/g/n+BT:		ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
	7265 ac+BT:		Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				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
WWAN (optional)	Upg:		Wireless WAN upgradable				AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
	EM7345:		Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				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			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider							Win8.1 64: Windows 8.1 64-bit			
Camera	HD720p resolution, low light sensitive, fixed focus							Win8.1 P64: Windows 8.1 Pro 64-bit			
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack							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

(STG2-6) © Lenovo



Lenovo® ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s

ThinkPad T460s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor (i7-6500U for discrete models only)								Smart card reader <i>Optional</i> : Smart card reader		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector	
	i5-6300U			2.4 GHz	3 GHz	3MB			WiGig dock (<i>opt</i>)	WiGig dock, mutually exclusive with WWAN	
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)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad	
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket								Security chip	Trusted Platform Module, TCG 1.2-compliant	
Display	<i>Some</i> : 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle <i>Some</i> : 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures	
Multi-touch (<i>opt</i>)	In-cell touch, supports 10-finger gesture, 250 nits								vPro (<i>optional</i>)	Intel vPro Technology	
Storage	<i>Some</i> : M.2 SSD / SATA 6.0Gb/s <i>Some</i> : M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s								Fingerprint reader	<i>Optional</i> : Touch style fingerprint reader on the palm rest	
Optical	None								Internal battery	Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated	
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life ¹⁰	<i>MobileMark® 2014</i> : up to 10.5 hr	
WLAN ⁴	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN)</i> : • 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								AC adapter	45W or 65W AC adapter	
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo 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)
WWAN (<i>optional</i>)	<i>One of the following, configurable by model (mutually exclusive with WiGig)</i> : • 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)								Limited warranty ¹²	<i>One of the following, configurable by model</i> : • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)	
SIM card (<i>opt</i>)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Mil-Spec test	MIL-STD-810G military certification	
Dimensions ³	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant	
Weight ²	<i>Integrated model</i> : from 3.0 lb (1.36kg); <i>Discrete model</i> : from 3.3 lb (1.50kg)										
Case material	<i>Display cover</i> : Carbon-Fiber Reinforced Plastic; <i>Bottom</i> : Magnesium alloy										

ThinkPad T460s 20F9 (TopSeller)

Product Specifications Reference (PSREF)

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)
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 (i7-6500U for discrete models only)						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)
	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)						Smart card readerOptional: Smart card reader
Chipset	Intel SoC (System on Chip) platform						Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						PortsThree USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
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						WiGig dock (opt)WiGig dock, mutually exclusive with WWAN
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional)HD720p resolution, low light sensitive, fixed focus
Storage	Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Optical	None						Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
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						SecurityPower-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chipTrusted Platform Module, TCG 1.2-compliant
Dimensions ³	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						vPro (optional)Intel vPro Technology
Weight ²	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						Fingerprint readerOptional: Touch style fingerprint reader on the palm rest
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Internal batteryFront 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 adapter45W or 65W AC adapter
							PreloadWin10 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

(TP1-1) © Lenovo

ThinkPad T460s 20F9 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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)
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 (i7-6500U for discrete models only)						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)
	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)						SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
Chipset	Intel SoC (System on Chip) platform						Smart card readerOptional: Smart card reader
Memory	20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
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						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Storage	Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Camera (optional)HD720p resolution, low light sensitive, fixed focus
Optical	None						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
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						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security Power-on password, hard disk password, supervisor password, security keyhole
Dimensions ³	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Security chip Trusted Platform Module, TCG 1.2-compliant
Weight ²	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						vPro (optional) Intel vPro Technology
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Fingerprint readerOptional: 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

(TP1-2) © Lenovo

ThinkPad T460s 20F9 (Discrete) - TopSeller

Product Specifications Reference (PSREF)

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)
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 (i7-6500U for discrete models only)						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
	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)						Smart card reader Optional: Smart card reader
Chipset	Intel SoC (System on Chip) platform						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Multi-touch (opt)	Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Storage	Some: M.2 SSD / SATA 6.0Gb/s						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Optical	Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
Ethernet	None						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
WLAN ⁴	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Security Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card						Security chip Trusted Platform Module, TCG 1.2-compliant
	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Intel vPro (optional) Intel vPro Technology
	18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
Dimensions ³	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated
Weight ²	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Max battery life ¹⁰ MobileMark® 2014: up to 10.5 hr
Case material	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						AC adapter 45W or 65W AC adapter
	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						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

(TP1-3) © Lenovo

ThinkPad T460s 20F9 (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

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 (i7-6500U for discrete models only)						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
	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)						Smart card reader Optional: Smart card reader
Chipset	Intel SoC (System on Chip) platform						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Multi-touch (opt)	Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Storage	Some: M.2 SSD / SATA 6.0Gb/s						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Optical	Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
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						Security Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip Trusted Platform Module, TCG 1.2-compliant
Dimensions ³	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Intel vPro (optional) Intel vPro Technology
Weight ²	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						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

(TP1-4) © Lenovo



Lenovo® ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p

ThinkPad T540p Platform Specifications

Product Specifications Reference (PSREF)

Positioning	Premiere performance; two spindles								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor								Ethernet	Intel Ethernet Connection I217-LM (Clarkville)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	NFC	Optional: Near Field Communication
	i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600	Chipset	Mobile Intel QM87 Express Chipset
	i3-4100M			2.5 GHz	-	3MB			ExpressCard	One slot (ExpressCard/34)
	i5-4200M			2.5 GHz	3.1 GHz	3MB			Smart card reader	Optional: Smart card reader
	i5-4210M			2.6 GHz	3.2 GHz	3MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300M			2.6 GHz	3.3 GHz	3MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	i5-4330M			2.8 GHz	3.5 GHz	3MB				
	i7-4600M	4	8	2.9 GHz	3.6 GHz	4MB	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		
	i7-4700MQ			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			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)			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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
Optical Ultrabay	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access								Security	Power-on password, hard disk password, supervisor password, security keyhole
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™								Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant
M.2 SSD	All: removable, upgradable, supports the second disk, Shock Mounted Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor
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								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 service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								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)
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 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									
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								Mil-Spec test	MIL-STD-810G military certification
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

ThinkPad T540p 20BE (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	Camera	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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB	Smart card reader		Optional: Smart card reader	
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB	Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WLAN ⁴	<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical Ultrabay Storage	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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
M.2 SSD	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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Widescreen 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						Ethernet	Intel Ethernet Connection I217-LM (Clarkville)	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						NFC	Optional: Near Field Communication	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Security	Power-on password, hard disk password, supervisor password, security keyhole	
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						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Weight ²	Models	6-cell		9-cell		vPro (optional)	Intel vPro Technology		
	Integrated	5.31 lb / 2.41kg		5.65 lb / 2.56kg		Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor		
	Optimus	5.43 lb / 2.46kg		5.80 lb / 2.63kg		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		
Case material	Glass-Fiber Reinforced Plastic							Win8 / 8.1 64: Windows 8 / 8.1 64-bit	
Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication							Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
Max battery life ¹⁰	Models	6-cell		9-cell			Win10 P64: Windows 10 Pro 64		
	Integrated	7 hr		12.5 hr					
	Optimus	6.2 hr		11 hr					
AC adapter	65-watt, 90-watt, or 135-watt AC adapter						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

(KM1-1) © Lenovo

ThinkPad T540p 20BE (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	Camera	Backlit key-board	Finger-print reader	NFC	Battery 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						Audio support		HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	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	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600	ThinkLight™			None	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		Chipset			Mobile Intel QM87 Express Chipset	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		ExpressCard			One slot (ExpressCard/34)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		Smart card reader			<i>Optional:</i> Smart card reader	
	i7-4600M		2.9 GHz	3.6 GHz	4MB		Media reader			4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB		Ports			Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB		WLAN ⁴			<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card	
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WWAN (<i>optional</i>)			<i>Upg:</i> Wireless WAN upgradeable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						SIM card (<i>optional</i>)		<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider		
Optical Ultrabay Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Bluetooth™		Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
M.2 SSD							Ethernet		Intel Ethernet Connection I217-LM (Clarkville)		
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						NFC		<i>Optional:</i> Near Field Communication		
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security chip		Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant		
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus)						vPro (<i>optional</i>)		Intel vPro Technology		
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						Fingerprint reader		<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor		
Weight ²	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>							
	<i>Integrated</i>	5.31 lb / 2.41kg		5.65 lb / 2.56kg							
	<i>Optimus</i>	5.43 lb / 2.46kg		5.80 lb / 2.63kg							
Case material	Glass-Fiber Reinforced Plastic						Preload		<i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64		
Battery type	Li-Ion 6-cell (<i>56Wh</i>) or 9-cell (<i>99.9Wh</i>), HW Authentication								<i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit		
Max battery life ¹⁰	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>							
	<i>Integrated</i>	7 hr		12.5 hr							
	<i>Optimus</i>	6.2 hr		11 hr							
AC adapter	65-watt, 90-watt, or 135-watt AC adapter								<i>Win10 P64:</i> Windows 8 / 8.1 Pro 64-bit 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 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	Camera	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	15.6" 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					DDR3L-1600	Audio support		HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	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	
	i3-4000M	2	2.4 GHz	-	3MB		4	ThinkLight™	None	
	i5-4200M		2.5 GHz	3.1 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset	
	i5-4300M		2.6 GHz	3.3 GHz	3MB			ExpressCard	One slot (ExpressCard/34)	
	i5-4330M		2.8 GHz	3.5 GHz	3MB			Smart card reader	Optional: Smart card reader	
	i7-4600M	2.9 GHz	3.6 GHz	4MB	Media reader			4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-4700MQ	2.4 GHz	3.4 GHz	6MB	Ports			Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
i7-4800MQ	2.7 GHz	3.7 GHz	6MB	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					
i7-4900MQ	2.8 GHz	3.8 GHz	8MB	WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS					
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					SIM card (optional)		AT&T® / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider		
Optical Ultrabay Storage	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					Bluetooth™		Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
M.2 SSD						Ethernet		Intel Ethernet Connection I217-LM (Clarkville)		
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					NFC		Optional: Near Field Communication		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Security chip		Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant		
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)					vPro (optional)		Intel vPro Technology		
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					Fingerprint reader		Optional: Fingerprint reader on the palm rest, swipe sensor		
Weight ²	Models	6-cell		9-cell		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		
	Integrated	5.31 lb / 2.41kg		5.65 lb / 2.56kg				Win8 / 8.1 P64: Windows 8 / 8.1 64-bit		
	Optimus	5.43 lb / 2.46kg		5.80 lb / 2.63kg				Win10 P64: Windows 8 / 8.1 Pro 64-bit Windows 10 Pro 64		
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							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	Camera	Backlit key-board	Finger-print reader	NFC	Battery 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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ThinkLight™	None	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Chipset	Mobile Intel QM87 Express Chipset	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		ExpressCard	One slot (ExpressCard/34)	
	i7-4600M		2.9 GHz	3.6 GHz	4MB		Smart card reader	<i>Optional:</i> Smart card reader	
	i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB		Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	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		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (<i>optional</i>)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						SIM card (<i>optional</i>)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider	
Ultrabay							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Storage							Ethernet	Intel Ethernet Connection I217-LM (Clarkville)	
M.2 SSD							NFC	<i>Optional:</i> Near Field Communication	
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						Security chip	Power-on password, hard disk password, supervisor password, security keyhole	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security chip vPro (<i>optional</i>)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus)						Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor	
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						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	
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						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 T540p 20BF

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)
20BF005UUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8.1 DG Win7	1-depot	Yes	04/14
20BF005SUS	i7-4600M	vPro	HD 4600	8GBx1	15.6" FHD	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8.1 DG Win7	3-depot	Yes	04/14

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600	UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i5-4200M		2.5 GHz	3.1 GHz	3MB		ThinkLight™	None	
	i5-4300M		2.6 GHz	3.3 GHz	3MB		Chipset	Mobile Intel QM87 Express Chipset	
	i5-4330M		2.8 GHz	3.5 GHz	3MB		ExpressCard	One slot (ExpressCard/34)	
	i7-4600M		2.9 GHz	3.6 GHz	4MB		Smart card reader	<i>Optional:</i> Smart card reader	
	i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
i7-4800MQ	2.7 GHz		3.7 GHz	6MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
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						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	
Optical	DVD burner, 9.5mm Ultrabay slim, removable						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
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: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
M.2 SSD							Ethernet	Intel Ethernet Connection I217-LM (Clarkville)	
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						NFC	<i>Optional:</i> Near Field Communication	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						Security chip	Trusted Platform Module, TCG 1.2-compliant	
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						vPro (optional)	Intel vPro Technology	
Weight ²	Models	6-cell		9-cell			Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor	
	Integrated	5.31 lb / 2.41kg		5.65 lb / 2.56kg			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	
	Optimus	5.43 lb / 2.46kg		5.80 lb / 2.63kg				Win8 / 8.1 64: Win8 / 8.1 P64: Win10 P64:	
								Windows 8 / 8.1 64-bit Windows 8 / 8.1 Pro 64-bit Windows 10 Pro 64	
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
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								

See footnotes for more detailed information

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ThinkPad T540p 20BF (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BF001LUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	No	10/13
20BF001NUS	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 P64	3-depot	No	10/13
20BF001PUS	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 P64	3-depot	No	10/13
20BF001RUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	No	10/13
20BF001TUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-depot	No	10/13
20BF001WUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-depot	No	11/13
20BF001XUS	i7-4600M	vPro	HD 4600	8GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-depot	No	11/13
20BF0021US	i7-4600M	vPro	HD 4600	8GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-depot	No	10/13
20BF0022US	i7-4600M	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 P64	3-depot	No	10/13
20BF002DUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20BF002GUS	i7-4600M	vPro	HD 4600	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20BF002PUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20BF0030US	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 P64	3-depot	Yes	10/13
20BF0034US	i7-4600M	vPro	HD 4600	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-depot	Yes	10/13
20BF0037US	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 P64	3-depot	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Smart card reader	Optional: Smart card reader
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WLAN ⁴		<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical	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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Ultrabay							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Storage							Ethernet	Intel Ethernet Connection I217-LM (Clarkville)	
M.2 SSD							NFC	Optional: Near Field Communication	
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						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						vPro (optional)	Intel vPro Technology	
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						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
Weight ²	Models	6-cell		9-cell			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	
	Integrated	5.31 lb / 2.41kg		5.65 lb / 2.56kg				Win8 / 8.1 64: Windows 8 / 8.1 64-bit	
	Optimus	5.43 lb / 2.46kg		5.80 lb / 2.63kg				Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
Case material	Glass-Fiber Reinforced Plastic							Win10 P64: Windows 10 Pro 64	
Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
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								

See footnotes for more detailed information

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ThinkPad T540p 20BF (Optimus)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BF005RUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	Yes	04/14
20BF005TUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	500G 7200	7260 a/b/g/n+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8.1 DG Win7	3-depot	Yes	04/14

- For detailed platform specifications, please see [ThinkPad T540p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Smart card reader	<i>Optional:</i> Smart card reader
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WLAN ⁴		<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradeable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical	DVD burner, 9.5mm Ultrabay slim, removable						SIM card	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						<i>optional</i>)	<i>Select:</i> User selectable, contract required with service provider	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
M.2 SSD							Ethernet	Intel Ethernet Connection i217-LM (Clarkville)	
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						NFC	<i>Optional:</i> Near Field Communication	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus)						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						vPro (<i>optional</i>)	Intel vPro Technology	
Weight ²	<i>Models</i>		<i>6-cell</i>		<i>9-cell</i>		Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor	
	<i>Integrated</i>		5.31 lb / 2.41kg		5.65 lb / 2.56kg		Preload	<i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64	
	<i>Optimus</i>		5.43 lb / 2.46kg		5.80 lb / 2.63kg			<i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64	
Case material	Glass-Fiber Reinforced Plastic								
Battery type	Li-Ion 6-cell (<i>56Wh</i>) or 9-cell (<i>99.9Wh</i>), HW Authentication								
Max battery life ¹⁰	<i>Models</i>		<i>6-cell</i>		<i>9-cell</i>				
	<i>Integrated</i>		7 hr		12.5 hr				
	<i>Optimus</i>		6.2 hr		11 hr				
AC adapter	65-watt, 90-watt, or 135-watt AC adapter						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 T540p 20BF (Optimus) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BF0015US	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 P64	3-depot	No	11/13
20BF0017US	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 P64	3-depot	No	11/13
20BF0018US	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 P64	3-depot	No	10/13
20BF001AUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	No	10/13
20BF001DUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 P64	3-depot	No	10/13
20BF001EUS	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 P64	3-depot	No	10/13
20BF001GUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	No	10/13
20BF001KUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	No	11/13
20BF0024US	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 P64	3-depot	No	10/13
20BF002FUS	i7-4600M	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 P64	3-depot	Yes	10/13
20BF002HUS	i5-4300M	vPro	GT 730M	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF002KUS	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF002LUS	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 P64	3-depot	Yes	10/13
20BF002MUS	i7-4600M	vPro	GT 730M	8GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF002QUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF002VUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF002XUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13
20BF0033US	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-depot	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None	
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset	
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)	
	i7-4600M	2.9 GHz	3.6 GHz	4MB	Smart card reader			Optional: Smart card reader		
	i7-4700MQ	2.4 GHz	3.4 GHz	6MB	Media reader			4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-4800MQ	2.7 GHz	3.7 GHz	6MB	Ports			Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
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						WLAN ⁴		<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card	
Optical	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						WWAN (<i>optional</i>)		<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Ultrabay							SIM card (<i>optional</i>)		<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider	
Storage							Bluetooth™		Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
M.2 SSD							Ethernet		Intel Ethernet Connection I217-LM (Clarkville)	
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						NFC		<i>Optional:</i> Near Field Communication	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security		Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus)						Security chip		Trusted Platform Module, TCG 1.2-compliant	
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						vPro (<i>optional</i>)		Intel vPro Technology	
Weight ²	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>		Fingerprint reader		<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor		
	<i>Integrated</i>	5.31 lb / 2.41kg		5.65 lb / 2.56kg		Preload		<i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64		
	<i>Optimus</i>	5.43 lb / 2.46kg		5.80 lb / 2.63kg				<i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64		
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹²		1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
Battery type	Li-Ion 6-cell (<i>56Wh</i>) or 9-cell (<i>99.9Wh</i>), HW Authentication									
Max battery life ¹⁰	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>						
	<i>Integrated</i>	7 hr		12.5 hr						
	<i>Optimus</i>	6.2 hr		11 hr						
AC adapter	65-watt, 90-watt, or 135-watt AC adapter									

See footnotes for more detailed information

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ThinkPad T540p 20BF (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Backlit key-board	Finger-print reader	NFC	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BF0014US	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 P64	3-onsite	No	10/13
20BF001MUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	No	10/13
20BF001QUS	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 P64	3-onsite	No	10/13
20BF001SUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	No	10/13
20BF001UUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-onsite	No	10/13
20BF001VUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-onsite	No	11/13
20BF001YUS	i7-4600M	vPro	HD 4600	8GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-onsite	No	11/13
20BF0020US	i7-4600M	vPro	HD 4600	8GBx1	15.6" FHD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	6	65W	Win8 P64	3-onsite	No	10/13
20BF0023US	i7-4600M	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 P64	3-onsite	No	10/13
20BF002BUS	i5-4300M	vPro	HD 4600	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20BF002EUS	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 P64	3-onsite	Yes	10/13
20BF002TUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20BF002WUS	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 P64	3-onsite	Yes	10/13
20BF002YUS	i7-4600M	vPro	HD 4600	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13
20BF0036US	i7-4600M	vPro	HD 4600	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	6	65W	Win8 P64	3-onsite	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)
	i7-4600M	2.9 GHz	3.6 GHz	4MB	Smart card reader			<i>Optional:</i> Smart card reader	
	i7-4700MQ	4	2.4 GHz	3.4 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WLAN ⁴		<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Optical Ultrabay Storage	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						SIM card (<i>optional</i>)	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider	
M.2 SSD							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						Ethernet	Intel Ethernet Connection I217-LM (Clarkville)	
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						NFC	<i>Optional:</i> Near Field Communication	
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus)						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Weight ²	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>			vPro (<i>optional</i>)	Intel vPro Technology	
	<i>Integrated</i>	5.31 lb / 2.41kg		5.65 lb / 2.56kg			Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor	
	<i>Optimus</i>	5.43 lb / 2.46kg		5.80 lb / 2.63kg			Preload	<i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64	
								<i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64	
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication								
Max battery life ¹⁰	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>					
	<i>Integrated</i>	7 hr		12.5 hr					
	<i>Optimus</i>	6.2 hr		11 hr					
AC adapter	65-watt, 90-watt, or 135-watt AC adapter								

See footnotes for more detailed information

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ThinkPad T540p 20BF (Optimus) - Onsite (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN / M.2 SSD	SIM card	Smart card reader	Express-Card	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BF0016US	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 P64	3-onsite	No	11/13
20BF0019US	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 P64	3-onsite	No	10/13
20BF001BUS	i7-4600M	vPro	GT 730M	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 P64	3-onsite	No	10/13
20BF001CUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	Backlit	Finger	None	9	90W	Win8 P64	3-onsite	No	10/13
20BF001FUS	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 P64	3-onsite	No	10/13
20BF001HUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	128G SSD	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	No	10/13
20BF001JUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" FHD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	No	11/13
20BF0025US	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 P64	3-onsite	No	10/13
20BF002CUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	500G 7200	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF002JUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF002NUS	i7-4600M	vPro	GT 730M	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF002RUS	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 P64	3-onsite	Yes	10/13
20BF002SUS	i7-4600M	vPro	GT 730M	8GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF002UUS	i5-4300M	vPro	GT 730M	4GBx1	15.6" HD	180G SSD Opal	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF0031US	i7-4600M	vPro	GT 730M	8GBx1	15.6" FHD	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF0032US	i5-4300M	vPro	GT 730M	4GBx1	15.5" 3K IPS	256G SSD eDrive	7260 ac+BT	Upg	None	None	Exp/34	720p	None	Finger	None	9	90W	Win8 P64	3-onsite	Yes	10/13
20BF0035US	i7-4600M	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 P64	3-onsite	Yes	10/13

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
	i3-4000M	2	2.4 GHz	-	3MB	DDR3L-1600		UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i5-4200M		2.5 GHz	3.1 GHz	3MB			ThinkLight™	None	
	i5-4300M		2.6 GHz	3.3 GHz	3MB			Chipset	Mobile Intel QM87 Express Chipset	
	i5-4330M		2.8 GHz	3.5 GHz	3MB			ExpressCard	One slot (ExpressCard/34)	
	i7-4600M	4	2.9 GHz	3.6 GHz	4MB			Smart card reader	<i>Optional:</i> Smart card reader	
	i7-4700MQ		2.4 GHz	3.4 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i7-4800MQ		2.7 GHz	3.7 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector	
i7-4900MQ	2.8 GHz		3.8 GHz	8MB	WLAN ⁴		<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card			
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Optical	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						SIM card (<i>optional</i>)	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider		
Ultrabay							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Storage							Ethernet	Intel Ethernet Connection I217-LM (Clarkville)		
M.2 SSD							NFC	<i>Optional:</i> Near Field Communication		
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Camera (<i>optional</i>)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Graphics	Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus)						vPro (<i>optional</i>)	Intel vPro Technology		
Dimensions ³	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm						Fingerprint reader	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor		
Weight ²	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>			Preload	<i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64		
	<i>Integrated</i>	5.31 lb / 2.41kg		5.65 lb / 2.56kg			<i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64			
	<i>Optimus</i>	5.43 lb / 2.46kg		5.80 lb / 2.63kg						
	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>						
Case material	Glass-Fiber Reinforced Plastic						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
	Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication								
	Max battery life ¹⁰	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>					
		<i>Integrated</i>	7 hr		12.5 hr					
AC adapter		<i>Optimus</i>	6.2 hr		11 hr					
		65-watt, 90-watt, or 135-watt AC adapter								

See footnotes for more detailed information

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Lenovo® ThinkPad T550



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ThinkPad T550 Platform Specifications

Product Specifications Reference (PSREF)

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	<i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 200 or 220 nits, 16:9 aspect ratio, 350:1 or 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory							
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot							
Optical	None							
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)							
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WLAN ⁴	<i>One of the following, configurable by model:</i> • 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)	<i>One of the following, configurable by model:</i> • 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	<i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic							

Smart card reader	<i>Optional:</i> 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	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor			
Internal battery	<i>Optional:</i> 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)			
	<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> 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	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 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)

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)	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
20CK000JUS	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
20CK000LUS	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					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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 6-cell	3-cell + 3-cell		3-cell + 6-cell			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB		DDR3L-1600	Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg		5.04 lb / 2.29 kg			
	i7-5600U		2.6 GHz	3.2 GHz	4MB			Multi-touch	-	5.01 lb / 2.27 kg		5.35 lb / 2.43 kg			
Graphics	Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory					Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic								
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Smart card reader	Optional: Smart card reader								
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 Capacitive-type multi-touch, supports 10-finger gesture, 315 nits					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								
Multi-touch (opt)						Camera (optional)	HD720p resolution, low light sensitive, fixed focus								
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 Single-sided M.2 SSD, via M.2 card slot None					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								
M.2 SSD (opt)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch								
						Security	Power-on password, hard disk password, supervisor password, security keyhole								
Optical						Security chip	Trusted Platform Module, TCG 1.2-compliant								
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) Bluetooth™					vPro (optional)	Intel vPro Technology								
						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor								
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					Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)								
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					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					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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								

See footnotes for more detailed information

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ThinkPad T550 20CK (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)	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					Dimensions ³ Weight ²	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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB		DDR3L-1600	Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Multi-touch	-	5.01 lb / 2.27 kg	5.35 lb / 2.43 kg
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					Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio					Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
	Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio					Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Multi-touch (opt)	Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits					Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
M.2 SSD (opt)	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Security	Power-on password, hard disk password, supervisor password, security keyhole				
	Some: SSHD with 8GB NAND flash memory					Security chip	Trusted Platform Module, TCG 1.2-compliant				
Optical	Single-sided M.2 SSD, via M.2 card slot					vPro (optional)	Intel vPro Technology				
Ethernet	None					Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
Bluetooth™	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
WLAN ⁴	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)				
	11b/g/n+BT:	ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card				Max battery life ¹⁰	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
	7265 ac+BT:	Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Battery life	14.8 hr		20 hr	25.2 hr	
WWAN (optional)	Upg:	Wireless WAN upgradable				AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
SIM card (opt)	EM7345:	Wireless WAN, Sierra Wireless EM7345,				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				
		Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card				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 T550 20CJ

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)	Global	Ann date (m/y)
20CJ000AUS	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	01/15
20CJ000BUS	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20CJ000CUS	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
20CJ000GUS	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	01/15
20CJ000LUS	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
20CJ000MUS	i5-5300U	vPro	HD 5500	8GBx1	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
20CJ0005US	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
20CJ000EUS	i7-5600U	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
20CJ000NUS	i7-5600U	vPro	HD 5500	8GBx1	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

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²				
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB	Multi-touch		-		5.01 lb / 2.27 kg	5.35 lb / 2.43 kg		
Graphics	Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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				

See footnotes for more detailed information

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ThinkPad T550 20CJ (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)	Global	Ann date (m/y)
20CJ002UUS	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	Yes	09/15
20CJ002VUS	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	Win10 P64	3-depot	Yes	09/15

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³ Weight ²	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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types						
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Models		No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Non-touch		4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
	i7-5600U		2.6 GHz	3.2 GHz	4MB			Multi-touch		-	5.01 lb / 2.27 kg	5.35 lb / 2.43 kg
Graphics	Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						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				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
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						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
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)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
							Fingerprint reader				Optional: Fingerprint reader on the palm rest, swipe sensor	
WWAN (optional)	Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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				

See footnotes for more detailed information

(SZ1-5) © Lenovo

ThinkPad T550 20CJ (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CJ0006US	i5-5300U	vPro	HD 5500	4GBx1	15.6" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-onsite	OID	Yes 01/15
20CJ0008US	i5-5300U	vPro	HD 5500	8GBx1	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-onsite	OID	Yes 01/15
20CJ000FUS	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-onsite	OID	Yes 01/15
20CJ000HUS	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-onsite	OID	Yes 01/15
20CJ000JUS	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-onsite	OID	Yes 01/15
20CJ000KUS	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-onsite	OID	Yes 01/15
20CJ0007US	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-onsite	OID	Yes 01/15
20CJ0009US	i7-5600U	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-onsite	OID	Yes 01/15
20CJ000DUS	i7-5600U	vPro	HD 5500	8GBx1	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-onsite	OID	Yes 01/15

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³	15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Non-touch	4.93 lb / 2.23 kg	4.70 lb / 2.13 kg	5.04 lb / 2.29 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB	Multi-touch		-		5.01 lb / 2.27 kg	5.35 lb / 2.43 kg		
Graphics	Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
	Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio											
Multi-touch (opt)	Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits							Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high						Keyboard		6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
M.2 SSD (opt)	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
	Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Optical	Single-sided M.2 SSD, via M.2 card slot						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	None						vPro (optional)	Intel vPro Technology				
	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
WLAN ⁴	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)				
	7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life ¹⁰	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
WWAN (optional)	Upg: Wireless WAN upgradable							AC adapter	Battery life	14.8 hr	20 hr	25.2 hr
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						45W AC adapter, 65W Slim AC adapter, or 65W AC adapter					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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 T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560

ThinkPad T560 Platform Specifications

Product Specifications Reference (PSREF)

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 Memory	Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets																											
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle <i>Some:</i> 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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory																											
Optical	None																											
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)																											
WLAN ⁴	<i>One of the following, configurable by model:</i> • 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)	<i>One of the following, configurable by model:</i> • 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	<i>WxDxH:</i> 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm																											
Weight ²	<table><tr><td><i>Models</i></td><td><i>No + 6-cell</i></td><td><i>3-cell + 3-cell</i></td><td><i>3-cell + 6-cell</i></td></tr><tr><td><i>Integrated Non-touch</i></td><td>5.18 lb / 2.35 kg</td><td>4.88 lb / 2.22 kg</td><td>5.35 lb / 2.43 kg</td></tr><tr><td><i>Integrated Multi-touch</i></td><td>-</td><td>4.92 lb / 2.23 kg</td><td>5.33 lb / 2.42 kg</td></tr><tr><td><i>Discrete Non-touch</i></td><td>5.27 lb / 2.39 kg</td><td>4.97 lb / 2.25 kg</td><td>5.44 lb / 2.47 kg</td></tr><tr><td><i>Discrete Multi-touch</i></td><td>-</td><td>5.00 lb / 2.27 kg</td><td>5.42 lb / 2.46 kg</td></tr></table>								<i>Models</i>	<i>No + 6-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell</i>	<i>Integrated Non-touch</i>	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg	<i>Integrated Multi-touch</i>	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg	<i>Discrete Non-touch</i>	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg	<i>Discrete Multi-touch</i>	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
<i>Models</i>	<i>No + 6-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell</i>																									
<i>Integrated Non-touch</i>	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg																									
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<i>Discrete Non-touch</i>	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg																									
<i>Discrete Multi-touch</i>	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg																									
Case material	<i>Display cover:</i> PPS; <i>Bottom:</i> Glass-Fiber Reinforced Plastic																											
Smart card reader	<i>Optional:</i> 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 UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 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	<i>Optional:</i> Swipe style fingerprint reader on the palm rest																											
Internal battery	<i>Optional:</i> 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)	<table><tr><td><i>Models</i></td><td><i>3 + 3-cell</i></td><td><i>3 + 6-cell 48Wh</i></td><td><i>3 + 6-cell 72Wh</i></td></tr><tr><td><i>Integrated model</i></td><td>13.2 hr</td><td>18.0 hr</td><td>22.7 hr</td></tr><tr><td><i>discrete model</i></td><td>13.5 hr</td><td>18.3 hr</td><td>24.3 hr</td></tr></table>								<i>Models</i>	<i>3 + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3 + 6-cell 72Wh</i>	<i>Integrated model</i>	13.2 hr	18.0 hr	22.7 hr	<i>discrete model</i>	13.5 hr	18.3 hr	24.3 hr								
<i>Models</i>	<i>3 + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3 + 6-cell 72Wh</i>																									
<i>Integrated model</i>	13.2 hr	18.0 hr	22.7 hr																									
<i>discrete model</i>	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 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)																											
Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 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)

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell			
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg			
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg			
	i7-6600U		2.6 GHz	3.4 GHz	4MB			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
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic						
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader						
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						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						
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						Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						
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						Security	Power-on password, hard disk password, supervisor password, security keyhole						
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology						
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						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest						
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)						
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)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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						

See footnotes for more detailed information

(SZ2-1) © Lenovo

ThinkPad T560 20FH (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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						Dimensions ³ Weight ²	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			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							
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset Memory	Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						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			
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 In-cell touch, supports 10-finger gesture						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
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						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology			
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						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Bluetooth™							Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
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)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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			

See footnotes for more detailed information

(SZ2-2) © Lenovo

ThinkPad T560 20FH (Discrete) - TopSeller

Product Specifications Reference (PSREF)

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](#)

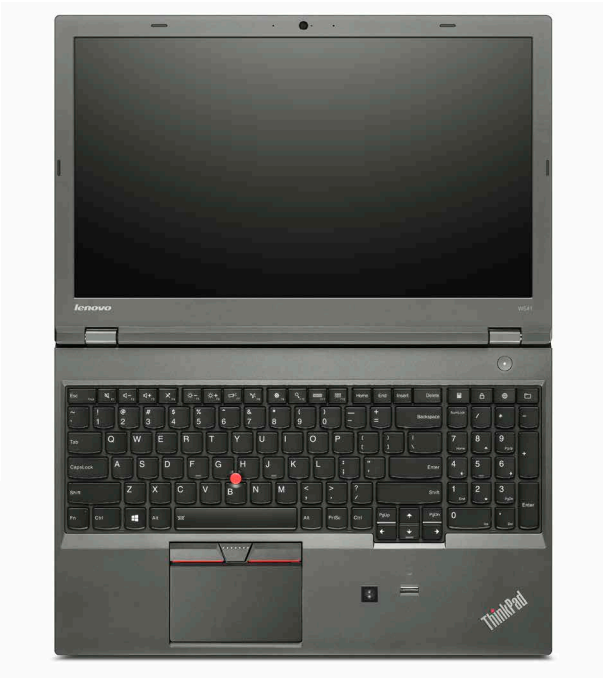
Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³ Weight ²	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg		4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-		4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			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	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic				
Chipset Memory	Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						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				
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 In-cell touch, supports 10-finger gesture						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Multi-touch (opt)							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
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						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology				
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						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
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)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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				

See footnotes for more detailed information

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Lenovo® ThinkPad W541



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Lenovo ThinkPad W541

ThinkPad W541 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor								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			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight ²	6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg)			
	i5-4210M	2	4	2.6 GHz	3.2 GHz	3MB	DDR3L-1600	Intel HD Graphics 4600	Case material	Glass-Fiber Reinforced Plastic			
	i5-4340M			2.9 GHz	3.6 GHz	3MB			Smart card reader	Optional: Smart card reader			
	i7-4600M			2.9 GHz	3.6 GHz	4MB			ExpressCard	One slot (ExpressCard/34)			
	i7-4710MQ	4	8	2.5 GHz	3.5 GHz	6MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
	i7-4810MQ			2.8 GHz	3.8 GHz	6MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector			
	i7-4910MQ			2.9 GHz	3.9 GHz	8MB			Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
	i7-4940MX			3.1 GHz	4 GHz	8MB			Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
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)								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
Chipset Memory	Mobile Intel QM87 Express Chipset dual-core model: 16GB max ¹ , 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								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
	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								Security	Power-on password, hard disk password, supervisor password, security keyhole		
Multi-touch	None								Security chip	Trusted Platform Module, TCG 1.2-compliant			
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								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
M.2 SSD (opt)	16GB M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								vPro (optional)	Intel vPro Technology			
Optical (optional)	DVD burner, 9.5mm Ultrabay slim, removable								Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor			
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access								Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator			
Ethernet	Intel Ethernet Connection I217-LM (Clarkville)								Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Max battery life ¹⁰	6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr			
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								AC adapter	dual-core: 135W AC adapter; quad-core: 170W AC adapter			
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)								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) For ISV certifications, please visit www.lenovo.com/support/ISV			
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								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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Select:	User selectable, contract required with service provider	
	i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600	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	
	i5-4340M		2.9 GHz	3.6 GHz	3MB		Weight ²	6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg)	
	i7-4600M		2.9 GHz	3.6 GHz	4MB		Case material	Glass-Fiber Reinforced Plastic	
	i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB		Smart card reader	Optional: Smart card reader	
	i7-4810MQ		2.8 GHz	3.8 GHz	6MB		ExpressCard	One slot (ExpressCard/34)	
	i7-4910MQ		2.9 GHz	3.9 GHz	8MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card	
i7-4940MX	3.1 GHz		4 GHz	8MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector		
Graphics	Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory						Camera (optional)	HD720p resolution, low light sensitive, fixed focus	
Chipset	Mobile Intel QM87 Express Chipset						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
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						Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology	
Multi-touch	None						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
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						Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest	
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication	
Optical (optional)	DVD burner, 9.5mm Ultrabay slim, removable						Max battery life ¹⁰	6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						AC adapter	dual-core: 135W AC adapter; quad-core: 170W AC adapter	
Ethernet Bluetooth™	Intel Ethernet Connection I217-LM (Clarkville) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo 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	
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							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	
WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS						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 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	Camera	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	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
20EF000PUS	i7-4810MQ vPro	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
20EF000JUS	i7-4810MQ vPro	No	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	No	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	No	K2100M	8GBx1	15.6" FHD	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	No	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	No	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	No	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	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
20EF002TUS	i7-4810MQ vPro	No	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	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 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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Select: User selectable, contract required with service provider	
	i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600		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
	i5-4340M		2.9 GHz	3.6 GHz	3MB			Weight ²	6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg)
	i7-4600M		2.9 GHz	3.6 GHz	4MB			Case material	Glass-Fiber Reinforced Plastic
	i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB			Smart card reader	Optional: Smart card reader
	i7-4810MQ		2.8 GHz	3.8 GHz	6MB			ExpressCard	One slot (ExpressCard/34)
	i7-4910MQ		2.9 GHz	3.9 GHz	8MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card
i7-4940MX	3.1 GHz		4 GHz	8MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector		
Graphics	Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory						Camera (optional)	HD720p resolution, low light sensitive, fixed focus	
Chipset	Mobile Intel QM87 Express Chipset						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
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						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Multi-touch	None						Security	Power-on password, hard disk password, supervisor password, security keyhole	
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						Security chip	Trusted Platform Module, TCG 1.2-compliant	
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						vPro (optional)	Intel vPro Technology	
Optical (optional)	DVD burner, 9.5mm Ultrabay slim, removable						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest	
Ethernet	Intel Ethernet Connection I217-LM (Clarkville)						Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life ¹⁰	6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr	
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						AC adapter	dual-core: 135W AC adapter; quad-core: 170W AC adapter	
WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS						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

(KM15W-4) © Lenovo

ThinkPad W541 20EG (Discrete)

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)
20EG0001US	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

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Select: User selectable, contract required with service provider		
	i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600	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	
	i5-4340M		2.9 GHz	3.6 GHz	3MB		Weight ²	6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg)	
	i7-4600M		2.9 GHz	3.6 GHz	4MB		Case material	Glass-Fiber Reinforced Plastic	
	i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB		Smart card reader	Optional: Smart card reader	
	i7-4810MQ		2.8 GHz	3.8 GHz	6MB		ExpressCard	One slot (ExpressCard/34)	
	i7-4910MQ		2.9 GHz	3.9 GHz	8MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card	
i7-4940MX	3.1 GHz		4 GHz	8MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector		
Graphics	Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory						Camera (optional)	HD720p resolution, low light sensitive, fixed focus	
Chipset	Mobile Intel QM87 Express Chipset						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
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						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
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						Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	
Multi-touch	None						vPro (optional) Fingerprint reader	Intel vPro Technology Optional: Fingerprint reader on the palm rest, swipe sensor	
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						Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest	
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication	
Optical (optional)	DVD burner, 9.5mm Ultrabay slim, removable						Max battery life ¹⁰	6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						AC adapter	dual-core: 135W AC adapter; quad-core: 170W AC adapter	
Ethernet	Intel Ethernet Connection I217-LM (Clarkville)						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	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							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	
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						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	
WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS								

See footnotes for more detailed information

(KM15W-2) © Lenovo

ThinkPad W541 20EG (Discrete) - Onsite

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)	
20EG0002US	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-onsite	No	01/15	
20EG0003US	i7-4810MQ	vPro	K2100M	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-onsite	No	01/15	
20EG0004US	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-onsite	No	01/15	
20EG000HUS	i7-4940MX	vPro	K2100M	8GBx4	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-onsite	No	01/15	
20EG0006US	i7-4810MQ	vPro	K1100M	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-onsite	OID	Yes	01/15
20EG0009US	i7-4810MQ	vPro	K1100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20EG000BUS	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-onsite	OID	Yes	01/15
20EG000EUS	i7-4810MQ	vPro	K1100M	8GBx1	15.5" 3K IPS	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20EG0005US	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-onsite	OID	Yes	01/15
20EG0007US	i7-4910MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20EG0008US	i7-4810MQ	vPro	K2100M	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-onsite	OID	Yes	01/15
20EG000AUS	i7-4810MQ	vPro	K2100M	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-onsite	OID	Yes	01/15
20EG000CUS	i7-4810MQ	vPro	K2100M	8GBx1	15.5" 3K IPS	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	None	9	170W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20EG000DUS	i7-4910MQ	vPro	K2100M	8GBx1	15.6" FHD	500G 7200	No	DVD±RW	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	X-Rite	9	170W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Select: User selectable, contract required with service provider	
	i5-4210M	2	2.6 GHz	3.2 GHz	3MB	DDR3L-1600		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
	i5-4340M		2.9 GHz	3.6 GHz	3MB			Weight ²	6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg)
	i7-4600M		2.9 GHz	3.6 GHz	4MB			Case material	Glass-Fiber Reinforced Plastic
	i7-4710MQ	4	2.5 GHz	3.5 GHz	6MB			Smart card reader	Optional: Smart card reader
	i7-4810MQ		2.8 GHz	3.8 GHz	6MB			ExpressCard	One slot (ExpressCard/34)
	i7-4910MQ		2.9 GHz	3.9 GHz	8MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card
i7-4940MX	3.1 GHz		4 GHz	8MB	Ports		Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector		
Graphics	Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory						Camera (optional)	HD720p resolution, low light sensitive, fixed focus	
Chipset	Mobile Intel QM87 Express Chipset						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
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						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Multi-touch	None						Security chip	Trusted Platform Module, TCG 1.2-compliant	
							vPro (optional)	Intel vPro Technology	
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						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor	
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card						Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest	
Optical (optional)	DVD burner, 9.5mm Ultrabay slim, removable						Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication	
Ultrabay	One modular bay for removable devices (right side, cold swap), 9.5mm high						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	
Ethernet	Intel Ethernet Connection I217-LM (Clarkville)						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	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Win8 / 8.1 64: Win8 / 8.1 P64: Win10 P64: Windows 8 / 8.1 64-bit Windows 8 / 8.1 Pro 64-bit Windows 10 Pro 64	
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						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

(KM15W-3) © Lenovo



ThinkPad W550s Platform Specifications

Product Specifications Reference (PSREF)

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	<i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory							
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot							
Optical	None							
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)							
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WLAN ⁴	<i>One of the following, configurable by model:</i> • 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)	<i>One of the following, configurable by model:</i> • 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	<i>15.6" (WxDxH):</i> 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm <i>15.6" Touch (WxDxH):</i> 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm							
Weight ²	<i>Models</i>	<i>No + 6-cell</i>		<i>3-cell + 3-cell</i>		<i>3-cell + 6-cell</i>		
	<i>Non-touch</i>	5.01 lb / 2.27 kg		4.78 lb / 2.17 kg		5.12 lb / 2.32 kg		
	<i>Multi-touch</i>	-		5.09 lb / 2.31 kg		5.43 lb / 2.46 kg		
Case material	<i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic							

Smart card reader	<i>Optional:</i> 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	<i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor			
Internal battery	<i>Optional:</i> 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	<i>Models</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>
	<i>Battery life</i>	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 • Lenovo Vantage 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) <i>For ISV certifications, please visit www.lenovo.com/support/ISV</i>			
Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 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	Camera	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						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600			Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
	i7-5500U		2.4 GHz	3 GHz	4MB				Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Camera	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
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						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(SZ1W-1) © Lenovo

ThinkPad W550s 20E2 (Discrete) - 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 key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	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					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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Weight ²	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U	2	2.3 GHz	2.9 GHz	3MB		DDR3L-1600		Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
	i7-5500U		2.4 GHz	3 GHz	4MB				Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory					Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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					Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits					Camera	HD720p resolution, low light sensitive, fixed focus					
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight					
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
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					vPro (optional)	Intel vPro Technology					
						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor					
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					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					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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 W550s 20E1 (Discrete) - Windows 8

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)
20E1000WUS	i7-5600U	vPro	K620M	8GBx2	15.5" 3K IPS	MT	512G SSD	None	7265 ac+BT	EM7345	AT&T	None	720p	Backlit	Finger	3+3	65W	Win8.1 P64	3-depot	No	01/15

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600			Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
	i7-5500U		2.4 GHz	3 GHz	4MB				Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Camera	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
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						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(SZ1W-2) © Lenovo

ThinkPad W550s 20E1 (Discrete) - Onsite

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)	
20E10000US	i7-5600U	vPro	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-onsite	No	01/15	
20E10001US	i7-5600U	vPro	K620M	8GBx1	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-onsite	No	01/15	
20E10002US	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-onsite	No	01/15	
20E10003US	i7-5600U	vPro	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-onsite	No	01/15	
20E10004US	i7-5600U	vPro	K620M	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	65W	Win8.1 DG Win7	3-onsite	No	01/15	
20E10005US	i7-5600U	vPro	K620M	8GBx1	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-onsite	No	01/15	
20E10006US	i7-5600U	vPro	K620M	8GBx1	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-onsite	No	01/15	
20E1000GUS	i7-5600U	vPro	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-onsite	No	01/15	
20E10007US	i7-5600U	vPro	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-onsite	OID	Yes	01/15
20E10008US	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-onsite	OID	Yes	01/15
20E10009US	i7-5600U	vPro	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-onsite	OID	Yes	01/15
20E1000AUS	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-onsite	OID	Yes	01/15
20E1000BUS	i7-5600U	vPro	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-onsite	OID	Yes	01/15
20E1000CUS	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-onsite	OID	Yes	01/15
20E1000DUS	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-onsite	OID	Yes	01/15
20E10010US	i7-5600U	vPro	K620M	8GBx1	15.6" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	65W	Win8.1 DG Win7	3-onsite	No	03/15	
20E10019US	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	Win10 DG Win7	3-onsite	OID	Yes	09/15

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600		Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
	i7-5500U		2.4 GHz	3 GHz	4MB			Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB							
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Camera	HD720p resolution, low light sensitive, fixed focus			
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
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						vPro (optional)	Intel vPro Technology			
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						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(SZ1W-3) © Lenovo

ThinkPad W550s 20E1 (Discrete) - Onsite (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	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)	
20E10018US	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	Win10 P64	3-onsite	OID	Yes	09/15
20E1001BUS	i7-5600U	vPro	K620M	8GBx2	15.5" 3K IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-onsite	No	09/15	
20E1001AUS	i7-5600U	vPro	K620M	8GBx2	15.6" FHD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(48wh)	65W	Win10 P64	3-onsite	No	09/15	

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²				
	i5-5300U	2	2.3 GHz	2.9 GHz	3MB	DDR3L-1600			Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i7-5500U		2.4 GHz	3 GHz	4MB				Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB	Multi-touch		-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg			
Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits						Camera	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
WWAN (optional)	Upg: Wireless WAN upgradable						Fingerprint reader	Optional: Fingerprint reader on the palm rest, swipe sensor				
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						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	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

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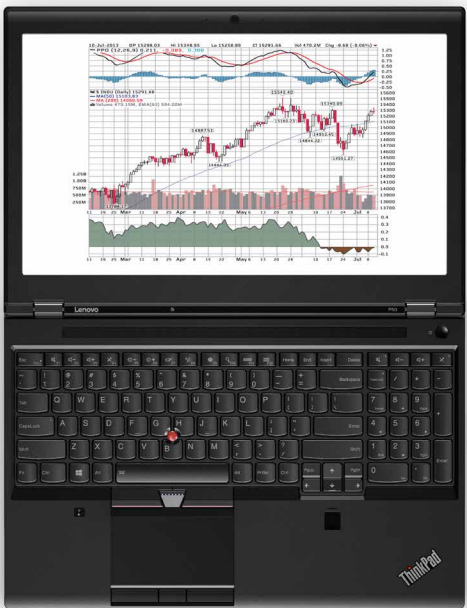
Lenovo® ThinkPad P50



Lenovo ThinkPad P50



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ThinkPad P50 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family								Smart card reader ExpressCard Media reader Ports	Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Camera (optional) Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack										
	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		Intel HD Graphics P530													
	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); 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)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad											
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)								Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures											
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								vPro (optional) Fingerprint reader	Intel vPro Technology Touch style fingerprint reader on the palm rest											
Display	<i>Some:</i> 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 <i>Some:</i> 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								Color calibration	<i>Optional:</i> Pantone® color calibrator by X-Rite® color calibration sensor in palm rest											
Multi-touch (opt) Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits ThinkPad Pen Pro, active pen for multi-touch display								Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)											
Storage	Up to 3 drives (two M.2 SSD and one HDD) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™								Max battery life ¹⁰ (MobileMark® 2014)	<table><tr><td>Model</td><td>4-cell</td><td>6-cell</td></tr><tr><td>Discrete Graphics</td><td>7.1 hr</td><td>9.7 hr</td></tr><tr><td>Hybrid Graphics</td><td>9.6 hr</td><td>13.2 hr</td></tr></table>			Model	4-cell	6-cell	Discrete Graphics	7.1 hr	9.7 hr	Hybrid Graphics	9.6 hr	13.2 hr
Model	4-cell	6-cell																			
Discrete Graphics	7.1 hr	9.7 hr																			
Hybrid Graphics	9.6 hr	13.2 hr																			
Optical	None								AC adapter	170W AC adapter											
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)								Preload	<i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> 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) <i>For ISV certifications, please visit www.lenovo.com/support/ISV</i>											
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								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)												
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card Micro-SIM card slot																				
SIM card																					
Dimensions ³	<i>WxDxH:</i> 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm <i>WxDxH(Touch):</i> 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm								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)												
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	<i>Display cover:</i> Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum								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

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)															
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								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																											
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types			Weight ²		Models			4-cell			6-cell																					
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133					Non-touch			5.6 lb / 2.55kg			5.9 lb / 2.67kg																					
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB					Multi-touch			6.2 lb / 2.82kg			6.4 lb / 2.90kg																						
	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)								Smart card reader	Optional: Smart card reader																												
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)								ExpressCard	One slot (ExpressCard/34)																												
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								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																												
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								Camera (optional)	HD720p resolution, low light sensitive, fixed focus																												
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits								Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																												
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display								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																												
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								Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest																												
Optical	None								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																						
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								AC adapter	170W AC adapter																												
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								Preload	Win7 P64:			Genuine Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64																									
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter									Win10 DG Win7:																												
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card									Win10 P64:																												
SIM card	Micro-SIM card slot																																					
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight								Limited warranty ¹²	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID																												
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad																																					

See footnotes for more detailed information

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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					Dimensions ³ Weight ²	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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	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)					Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Smart card reader	Optional: Smart card reader			
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					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			
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					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
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					Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None					vPro (optional)	Intel vPro Technology			
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Fingerprint reader	Touch style fingerprint reader on the palm rest			
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Max battery life ¹⁰	Model	4-cell	6-cell	
SIM card	Micro-SIM card slot					(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight						Hybrid Graphics	9.6 hr	13.2 hr	
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad					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

(WT1-2) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller (Windows 10)

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)		
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								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														
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types			Weight ²		Models			4-cell			6-cell								
	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)								Smart card reader		Optional: Smart card reader														
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)								ExpressCard		One slot (ExpressCard/34)														
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								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														
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								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														
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits								Security		Power-on password, hard disk password, supervisor password, security keyhole														
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display								Security chip		Trusted Platform Module, TCG 1.2-compliant														
									vPro (optional)		Intel vPro Technology														
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								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														
Optical	None								Battery		Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)														
									Max battery life ¹⁰		Model			4-cell			6-cell								
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								(MobileMark® 2014)		Discrete Graphics			7.1 hr			9.7 hr								
											Hybrid Graphics			9.6 hr			13.2 hr								
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								AC adapter		170W AC adapter														
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload		Win7 P64:			Win10 DG Win7:			Genuine Windows® 7 Professional 64			Windows 7 Professional 64 preinstalled through			downgrade rights in Windows 10 Pro 64		
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card										Win10 P64:						Windows 10 Pro 64								
SIM card	Micro-SIM card slot																								
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight								Limited warranty ¹²		3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID														
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad																								

See footnotes for more detailed information

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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					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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133		Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	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)					Smart card reader	Optional: Smart card reader			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					ExpressCard	One slot (ExpressCard/34)			
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					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			
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					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
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					Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None					vPro (optional)	Intel vPro Technology			
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Fingerprint reader	Touch style fingerprint reader on the palm rest			
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Max battery life ¹⁰	Model	4-cell	6-cell	
SIM card	Micro-SIM card slot					(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight						Hybrid Graphics	9.6 hr	13.2 hr	
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad					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

(WT1-4) © Lenovo



Lenovo® ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s

ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader																				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																			
	i5-6300U	2	4	2.4 GHz	3 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector																			
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Camera (<i>optional</i>)	HD720p resolution, low light sensitive, fixed focus																			
i7-6600U	2.6 GHz			3.4 GHz	4MB	Audio support			HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack																				
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)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																			
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole																			
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Security chip ThinkEngine	Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																			
Display	<i>Some</i> : 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 <i>Some</i> : 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle								vPro (<i>optional</i>)	Intel vPro Technology																			
Multi-touch (<i>opt</i>)	In-cell touch, supports 10-finger gesture								Fingerprint reader	<i>Optional</i> : Swipe style fingerprint reader on the palm rest																			
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory								Internal battery	<i>Optional</i> : Integrated Li-Polymer 3-cell (44Wh)																			
Optical	None								External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)																			
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life ¹⁰ (MobileMark® 2014)	<table><tr><td>Models</td><td>3 + 3-cell</td><td>3 + 6-cell 48Wh</td><td>3 + 6-cell 72Wh</td></tr><tr><td>Max battery life</td><td>12.0 hr</td><td>16.3 hr</td><td>20.5 hr</td></tr></table>				Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh	Max battery life	12.0 hr	16.3 hr	20.5 hr								
Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh																										
Max battery life	12.0 hr	16.3 hr	20.5 hr																										
WLAN ⁴	<i>One of the following, configurable by model:</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								AC adapter	65W Slim AC adapter or 65W AC adapter																			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	<table><tr><td>Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</td><td>Windows 10 Pro 64</td></tr><tr><td>• Lenovo Solution Center</td><td>• Lenovo Solution Center</td></tr><tr><td>• ThinkVantage Product Recovery</td><td>• ThinkVantage Product Recovery</td></tr><tr><td>• Rescue and Recovery™</td><td>• Rescue and Recovery™</td></tr><tr><td>• ThinkVantage System Update</td><td>• ThinkVantage System Update</td></tr><tr><td>• Adobe® Reader®</td><td>• Adobe® Reader®</td></tr><tr><td>• Microsoft® Office preloaded; purchase a product key to activate</td><td>• Microsoft® Office preloaded; purchase a product key to activate</td></tr><tr><td>• McAfee® LiveSafe™ (30-day trial)</td><td>• McAfee® LiveSafe™ (30-day trial)</td></tr></table> <i>For ISV certifications, please visit www.lenovo.com/support/ISV</i>				Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64	• Lenovo Solution Center	• Lenovo Solution Center	• ThinkVantage Product Recovery	• ThinkVantage Product Recovery	• Rescue and Recovery™	• Rescue and Recovery™	• ThinkVantage System Update	• ThinkVantage System Update	• Adobe® Reader®	• Adobe® Reader®	• Microsoft® Office preloaded; purchase a product key to activate	• Microsoft® Office preloaded; purchase a product key to activate	• McAfee® LiveSafe™ (30-day trial)	• McAfee® LiveSafe™ (30-day trial)
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64																												
• Lenovo Solution Center	• Lenovo Solution Center																												
• ThinkVantage Product Recovery	• ThinkVantage Product Recovery																												
• Rescue and Recovery™	• Rescue and Recovery™																												
• ThinkVantage System Update	• ThinkVantage System Update																												
• Adobe® Reader®	• Adobe® Reader®																												
• Microsoft® Office preloaded; purchase a product key to activate	• Microsoft® Office preloaded; purchase a product key to activate																												
• McAfee® LiveSafe™ (30-day trial)	• McAfee® LiveSafe™ (30-day trial)																												
WWAN (<i>optional</i>)	<i>One of the following, configurable by model:</i> • 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)								Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)																			
SIM card (<i>opt</i>)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Mil-Spec test	MIL-STD-810G military certification																			
Dimensions ³	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																			
Weight ²	<table><tr><td>Models</td><td>No + 6-cell</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell</td></tr><tr><td>Non-touch</td><td>5.27 lb / 2.39 kg</td><td>4.97 lb / 2.25 kg</td><td>5.44 lb / 2.47 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>5.00 lb / 2.27 kg</td><td>5.42 lb / 2.46 kg</td></tr></table>								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									
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																												

ThinkPad P50s 20FL (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint 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						Dimensions ³ Weight ²	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6300U	2	2.4 GHz	3 GHz	3MB	DDR3L-1600		Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)						Case material				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						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			
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						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant			
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						vPro (optional)	Intel vPro Technology			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
WWAN (optional)	Upg: Wireless WAN upgradeable 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)						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			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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 P70 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family								Smart card reader ExpressCard Media reader Ports	Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector
	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		Intel HD Graphics P530		
	E3-1505M v5			2.8 GHz	3.7 GHz	8MB		Intel Iris™ Pro Graphics P580		
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); 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)								Camera (optional)	HD720p resolution, low light sensitive, fixed focus
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets								Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
Memory									Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad
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								Security	Power-on password, hard disk password, supervisor password, security keyhole
Multi-touch (opt)									Security chip	Trusted Platform Module, TCG 1.2-compliant
Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits ThinkPad Pen Pro, active pen for multi-touch display								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures
Storage									vPro (optional)	Intel vPro Technology
	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™								Fingerprint reader	Touch style fingerprint reader on the keyboard bezel
Optical (optional)									Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Battery	Li-Ion 8-cell (96Wh)
WLAN ⁴									Max battery life ¹⁰	<table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>Max battery life</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>
Mode	Discrete Graphics	Hybrid Graphics								
Max battery life	8.5 hr	10.8 hr								
Bluetooth™	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								(MobileMark® 2014)	
WWAN (optional)									AC adapter	170W or 230W AC adapter
SIM card	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card Micro-SIM card slot								Preload	Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Dimensions ³									Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	
Weight ²	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 Non-touch model: from 7.3 lb (3.3kg) Multi-touch model: from 8.1 lb (3.7kg)								• Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)	
Case material									• 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) For ISV certifications, please visit www.lenovo.com/support/ISV	
	Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum								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

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)
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					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								
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg)							
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Case material	Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum							
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB		Smart card reader	Optional: Smart card reader							
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB		ExpressCard	One slot (ExpressCard/34)							
E3-1575M v5	3 GHz		3.9 GHz	Media reader			4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card								
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)					Ports	Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector								
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Camera	HD720p resolution, low light sensitive, fixed focus								
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					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle					Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight								
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad								
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Security vPro (optional)	Trusted Platform Module, TCG 1.2-compliant								
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in					Fingerprint reader	Intel vPro Technology								
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)					Color calibration	Touch style fingerprint reader on the keyboard bezel <i>Optional:</i> Pantone® color calibrator by X-Rite® color calibration sensor in palm rest								
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Battery	Li-Ion 8-cell (96Wh)								
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Max battery life ¹⁰	<table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>			Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics													
MobileMark® 2014	8.5 hr	10.8 hr													
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card					AC adapter	170W or 230W AC adapter								
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider					Preload	<i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> 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

(PY1-1) © 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 adapter	Power (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					Dimensions ³ <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum	
	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)					Camera Audio support	
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	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle					Keyboard UltraNav™	
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security Security chip vPro (optional) Fingerprint reader Color calibration	
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS						
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in					Battery Max battery life ¹⁰	
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)						
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					AC adapter	
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/UMTS/GNSS, M.2 card					Preload	
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider						
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						Dimensions ³ <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum									
	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)						Smart card readerOptional: Smart card reader									
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						ExpressCardOne slot (ExpressCard/34)									
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle						Media reader4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card									
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						PortsFour USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector									
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display						CameraHD720p resolution, low light sensitive, fixed focus									
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS						Audio supportHD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack									
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in						Keyboard6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight									
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad									
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						SecurityPower-on password, hard disk password, supervisor password, security keyhole									
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chipTrusted Platform Module, TCG 1.2-compliant									
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card						vPro (optional)Intel vPro Technology									
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider						Fingerprint readerTouch style fingerprint reader on the keyboard bezel									
							Color calibrationOptional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest									
							BatteryLi-Ion 8-cell (96Wh)									
							Max battery life ¹⁰ <table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr			
Mode	Discrete Graphics	Hybrid Graphics														
MobileMark® 2014	8.5 hr	10.8 hr														
							AC adapter170W or 230W AC adapter									
							Preload <table><tr><td>Win7 P64:</td><td colspan="2">Genuine Windows® 7 Professional 64</td></tr><tr><td>Win10 DG Win7:</td><td colspan="2">Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</td></tr><tr><td>Win10 P64:</td><td colspan="2">Windows 10 Pro 64</td></tr></table>	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	
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

(PY1-3) © Lenovo

ThinkPad P70 20ES (Discrete) - Onsite

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 adapter	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ES0009US	E3-1505M v5	vPro	M3000M	16GBx1 ECC	17.3" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	X-Rite	8	230W	Win10 DG Win7	3-onsite	No	10/15
20ES0008US	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-onsite	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					Dimensions ³ <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum						
	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)					Camera HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
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	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 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) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Battery Li-Ion 8-cell (96Wh) Max battery life ¹⁰ <table><tr><td>Mode</td><td>Discrete Graphics</td><td>Hybrid Graphics</td></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics										
MobileMark® 2014	8.5 hr	10.8 hr										
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)					AC adapter 170W or 230W AC adapter						
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+/UMTS/GNSS, M.2 card					Preload <i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64						
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider											
	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

(PY1-4) © Lenovo



Lenovo® ThinkPad 11e



Lenovo ThinkPad 11e



Lenovo ThinkPad 11e

ThinkPad 11e 20D9 (TopSeller)

Product Specifications Reference (PSREF)

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								Chipset Media reader Ports Control buttons WLAN ⁴ WWAN Bluetooth™ Ethernet NFC Security Security chip vPro (optional) Fingerprint reader	Intel SoC (System on Chip) platform 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) Power button, volume control button 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 None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek RTL8111GUS-CG Gigabit Network Connection None Power-on password, hard disk password, supervisor password, security keyhole None None None	
	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								Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet	
Optical Storage	None 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™								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)
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								Mil-Spec test	MIL-STD-810G military certification	
Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys										
Touchpad	Buttonless touchpad below keyboard, multi-touch										
ThinkLight™	None										

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(MR1W-1) © Lenovo

ThinkPad 11e 20D9 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

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								Chipset	Intel SoC (System on Chip) platform		
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)		
	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									Control buttons	Power button, volume control button	
Optical Storage	None 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™									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	
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio									WWAN	None	
Multi-touch	None									Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Hinge	Normal hinge, 180 degree									Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection	
Camera (optional)	HD720p resolution, low light sensitive									NFC	None	
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz									Security	Power-on password, hard disk password, supervisor password, security keyhole	
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm									Security chip	None	
Weight ²	from 3.28 lb (1.49kg)									vPro (optional)	None	
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black									Fingerprint reader	None	
Case material	Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic									Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet	
Battery type	Integrated Lithium Ion 4-cell (35Wh)									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	
Max battery life ¹⁰	Models		Windows 7		Windows 8		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)					
	MobileMark® 2007		7.0 hr		-							
	MobileMark 2012		6.0 hr		6.5 hr							
AC adapter	45-watt AC adapter									Mil-Spec test	MIL-STD-810G military certification	
Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys											
Touchpad	Buttonless touchpad below keyboard, multi-touch											
ThinkLight™	None											

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(MR1W-2) © Lenovo

ThinkPad 11e 20D9 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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								Chipset	Intel SoC (System on Chip) platform		
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)		
	N2930			1.83 GHz	2.16 GHz		DDR3L-1333		Control buttons	Power button, volume control button		
N2940	1.83 GHz			2.25 GHz	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			
Memory	8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket								WWAN	None		
Optical Storage	None 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™								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio								Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection		
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								NFC	None		
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm from 3.28 lb (1.49kg)								Security	Power-on password, hard disk password, supervisor password, security keyhole		
Weight ²									None			
Case color									None			
Case material									None			
Battery type	Integrated Lithium Ion 4-cell (35Wh)								Security chip	None		
Max battery life ¹⁰									None			
									None			
									None			
AC adapter	45-watt AC adapter								vPro (optional)	None		
Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								Fingerprint reader	None		
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet			
Touchpad	Buttonless touchpad below keyboard, multi-touch								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64		
ThinkLight™	None								• Lenovo Solution Center		Some: Windows 8.1 64-bit	
									• ThinkVantage Product Recovery		Some: Windows 8.1 Pro 64-bit	
									• Rescue and Recovery™		Some: Windows 10 Home 64	
									• ThinkVantage System Update		Some: Windows 10 Pro 64	
									• Lenovo Reach		• Lenovo Solution Center	
									• PC Device Stage		• Lenovo SHAREit	
									• Nitro Pro		• Lenovo REACHit	
									• Evernote®		• Lenovo Companion	
									• Skype™		• Lenovo Photo Editor (Win8.1 model)	
									• Microsoft® Office preloaded; purchase a product key to activate		• 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

(MR1W-5) © Lenovo

ThinkPad 11e 20DA

Product Specifications Reference (PSREF)

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)
20DA000QUS	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
20DA000RUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/14
20DA000SUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	05/14
20DA000GUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	09/14
20DA000JUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	09/14
20DA000MUS	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
20DA001UUS	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
20DA001YUS	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
20DA0020US	Cel N2940	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	1-depot	No	12/14
20DA002NUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20DA002PUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	64G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20DA002QUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20DA002RUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20DA002SUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	320G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20DA002TUS	Cel N2940	No	Intel HD	8GBx1	11.6" HD	500G 7200	7260 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15

Processor	Intel® Celeron® processor N2920, N2930, or N2940								Chipset	Intel SoC (System on Chip) platform		
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)		
	N2930			1.83 GHz	2.16 GHz		DDR3L-1333		Control buttons	Power button, volume control button		
N2940	1.83 GHz			2.25 GHz								
Memory	8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket									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	
Optical Storage	None 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™									WWAN	None	
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio									Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Multi-touch	None									Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection	
Hinge	Normal hinge, 180 degree									NFC	None	
Camera (optional)	HD720p resolution, low light sensitive									Security	Power-on password, hard disk password, supervisor password, security keyhole	
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz									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		
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm									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	
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)										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)	
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									Mil-Spec test	MIL-STD-810G military certification	
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	
Touchpad	Buttonless touchpad below keyboard, multi-touch											
ThinkLight™	None											

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(MR1W-3) © Lenovo

ThinkPad 11e 20DA (Windows 8)

Product Specifications Reference (PSREF)

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)
20DA000TUS	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
20DA000UUS	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
20DA000VUS	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
20DA000WUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/14
20DA000XUS	Cel N2920	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	05/14
20DA0004US	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
20DA000NUS	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
20DA000AUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	320G 7200	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	09/14
20DA000BUS	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
20DA000CUS	Cel N2930	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 a/b/g/n+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	09/14
20DA001VUS	Cel N2940	No	Intel HD	4GBx1	11.6" HD	128G SSD	7260 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	No	12/14
20DA001WUS	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
20DA001XUS	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

Processor	Intel® Celeron® processor N2920, N2930, or N2940								Chipset	Intel SoC (System on Chip) platform		
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)		
	N2930			1.83 GHz	2.16 GHz		DDR3L-1333		Control buttons	Power button, volume control button		
N2940	1.83 GHz			2.25 GHz	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			
Memory	8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket									WWAN	None	
Optical Storage	None 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™									Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio									Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection	
Multi-touch	None									NFC	None	
Hinge	Normal hinge, 180 degree									Security chip	Power-on password, hard disk password, supervisor password, security keyhole	
Camera (optional)	HD720p resolution, low light sensitive									Security chip vPro (optional)	None	
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz									Fingerprint reader	None	
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm									Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available		
Weight ²	from 3.28 lb (1.49kg)									For Lenovo service upgrade options, please go to QP-TA sheet		
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black									Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64	
Case material	Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic									Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64		
Battery type	Integrated Lithium Ion 4-cell (35Wh)									• 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		
Max battery life ¹⁰	Models		Windows 7		Windows 8		• 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)					
	MobileMark® 2007		7.0 hr		-							
	MobileMark 2012		6.0 hr		6.5 hr							
AC adapter	45-watt AC adapter									Mil-Spec test	MIL-STD-810G military certification	
Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys											
Touchpad	Buttonless touchpad below keyboard, multi-touch											
ThinkLight™	None											

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(MR1W-4) © Lenovo

ThinkPad 11e 20DA (Windows 10)

Product Specifications Reference (PSREF)

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)
20DA002WUS	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
20DA002XUS	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
20DA0034US	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
20DA0039US	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
20DA003AUS	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
20DA003BUS	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
20DA003CUS	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								Chipset	Intel SoC (System on Chip) platform		
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)		
	N2930			1.83 GHz	2.16 GHz		DDR3L-1333		Control buttons	Power button, volume control button		
N2940	1.83 GHz			2.25 GHz	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			
Memory	8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket								WWAN	None		
Optical Storage	None 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™								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio								Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection		
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								NFC	None		
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm from 3.28 lb (1.49kg)								Security	Power-on password, hard disk password, supervisor password, security keyhole		
Weight ²									None			
Case color									None			
Case material									None			
Battery type	Integrated Lithium Ion 4-cell (35Wh)								Security chip	None		
Max battery life ¹⁰	ModelsWindows 7Windows 8MobileMark® 20077.0 hr-MobileMark 20126.0 hr6.5 hr								vPro (optional)	None		
AC adapter	45-watt AC adapter								Fingerprint reader	None		
Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet		
Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64		
Touchpad	Buttonless touchpad below keyboard, multi-touch									Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64		
ThinkLight™	None									• 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		
										• 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

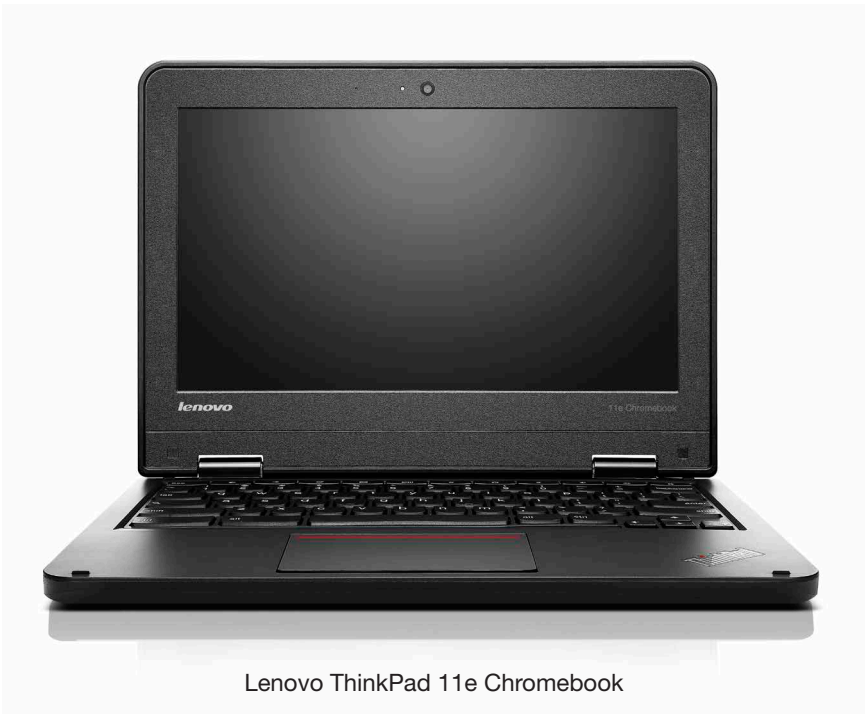
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Lenovo® ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook

ThinkPad 11e Chromebook 20DU (TopSeller)

Product Specifications Reference (PSREF)

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								Audio support	HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Touchpad	Buttonless touchpad below keyboard, multi-touch
	N2930			1.83 GHz	2.16 GHz		ThinkLight™		None	
N2940	1.83 GHz			2.25 GHz						
Memory	2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets								Chipset	Intel SoC (System on Chip) platform
Optical Storage	None 16GB eMMC (embedded Multi Media Card) flash memory on board								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio None Normal hinge, 180 degree HD720p resolution, low light sensitive								Ports	One USB 3.0, one USB 2.0, HDMI
Multi-touch									Control buttons	Power button, volume control button
Hinge									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
Camera									WWAN	None
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm from 3.09 lb (1.4kg) Display cover: Graphite Black or Silver; Bottom: Graphite Black Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Integrated Lithium Ion 4-cell (35Wh) more than 8 hours 45-watt AC adapter								Ethernet	None
Weight ²									NFC	None
Case color									Security	Security keyhole
Case material									Security chip	Trusted Platform Module, TCG 1.2-compliant
Battery type									vPro (optional)	None
Max battery life ¹⁰									Fingerprint reader	None
AC adapter									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

See footnotes for more detailed information

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ThinkPad 11e Chromebook 20DB

Product Specifications Reference (PSREF)

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)
20DB0006US	Cel N2930	No	Intel HD	2GBx1	11.6" HD	16GB eMMC	7260 ac+BT	Black	720p	None	4	45W	Google Chrome	1-depot	No	06/14
20DB0007US	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
20DB000FUS	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								Audio support	HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
	N2920	4	4	1.86 GHz	2 GHz	2MB	DDR3L-1066	Intel HD graphics	Touchpad	Buttonless touchpad below keyboard, multi-touch
	N2930			1.83 GHz	2.16 GHz		ThinkLight™		None	
N2940	1.83 GHz			2.25 GHz						
Memory	2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets								Chipset	Intel SoC (System on Chip) platform
Optical Storage	None								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Widescreen display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio								Ports	One USB 3.0, one USB 2.0, HDMI
Multi-touch	None								Control buttons	Power button, volume control button
Hinge	Normal hinge, 180 degree								WLAN ⁴	11a/b/g/n+BT: ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 card
Camera	HD720p resolution, low light sensitive								WWAN	7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz								Bluetooth™	None
Dimensions ³	11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm								Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Weight ²	from 3.09 lb (1.4kg)								NFC	None
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black								Security	Security keyhole
Case material	Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Security chip	Trusted Platform Module, TCG 1.2-compliant
Battery type	Integrated Lithium Ion 4-cell (35Wh)								vPro (optional)	None
Max battery life ¹⁰	more than 8 hours								Fingerprint reader	None
AC adapter	45-watt AC adapter								Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available
									Preload	For Lenovo service upgrade options, please go to QP-TA sheet
									Mil-Spec test	Google Chrome OS
									Environment	MIL-STD-810G military certification
										EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information

(MR1C-2) © Lenovo



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							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform							Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models	Windows 7	Windows 8															
MobileMark® 2012	6.6 hr	6.68 hr															
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							AC adapter	45-watt AC adapter								
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							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								
Multi-touch	None								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)								
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							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)								
Weight ²	from 3.3 lb (1.49kg)																
Case color	Graphite Black							Mil-Spec test	MIL-STD-810G military certification								
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant								

See footnotes for more detailed information

(MR15AW-1) © Lenovo

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						Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button							
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus							
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack							
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								
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						Touchpad	Buttonless touchpad below keyboard, multi-touch								
							Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
							Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform						Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models	Windows 7	Windows 8														
MobileMark® 2012	6.6 hr	6.68 hr														
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						AC adapter	45-watt AC adapter								
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio						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								
Multi-touch	None						• 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)								
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						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)								
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						Mil-Spec test	MIL-STD-810G military certification								
Weight ²	from 3.3 lb (1.49kg)						Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant								
Case color	Graphite Black															
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic															

See footnotes for more detailed information

(MR15AW-5) © Lenovo

ThinkPad 11e (2nd Gen) 20ED (AMD) - 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)
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							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform 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							Max battery life ¹⁰	<table><tr><th>Models</th><th>Windows 7</th><th>Windows 8</th></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models								Windows 7	Windows 8								
MobileMark® 2012								6.6 hr	6.68 hr								
Memory								AC adapter	45-watt AC adapter								
Display	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															
	Multi-touch	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)															
	Hinge																
	Storage																
Optical	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™ 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							Limited warranty ¹² One of the following, configurable by model:									
Weight ²	from 3.3 lb (1.49kg)							1-year depot repair service 3-year/1-yr battery depot repair service (US only)									
Case color	Graphite Black							Mil-Spec test MIL-STD-810G military certification									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant									

See footnotes for more detailed information

(MR15AW-2) © Lenovo

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							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									
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							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								
Chipset	Intel or AMD SoC (System on Chip) platform							Fingerprint reader	None								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
								Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
								Models	Windows 7	Windows 8							
MobileMark® 2012	6.6 hr	6.68 hr															
AC adapter	45-watt AC adapter																
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							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)									
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																
Optical	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™																
	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																
								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

(MR15AW-6) © Lenovo

ThinkPad 11e (2nd Gen) 20EE (AMD)

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)
20EE0003US	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	3-depot	No	03/15
20EE0005US	A4-6210	Radeon R3	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	3-depot	No	03/15
20EE0001US	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 DG Win7	3-depot	No	05/15
20EE0006US	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE0007US	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE0008US	A4-6210	Radeon R3	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE0009US	A4-6210	Radeon R3	4GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000AUS	E2-6110	Radeon R2	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000BUS	E2-6110	Radeon R2	2GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000CUS	A4-6210	Radeon R3	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000DUS	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000EUS	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000FUS	E2-6110	Radeon R2	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20EE000GUS	E2-6110	Radeon R2	4GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15

Processor	Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							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								
Chipset	Intel or AMD SoC (System on Chip) platform							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
								Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
								Models	Windows 7	Windows 8							
								MobileMark® 2012	6.6 hr	6.68 hr							
Memory	Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets							AC adapter	45-watt AC adapter								
								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							Preload	<i>Some:</i> Genuine Windows® 7 Professional 64								
Multi-touch	None								<i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64								
Hinge	Normal hinge, 180 degree								<i>Some:</i> Windows 8.1 64-bit								
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high								<i>Some:</i> Windows 8.1 Pro 64-bit								
Optical	None								<i>Some:</i> Windows 10 Home 64								
									<i>Some:</i> 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)								
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							Limited warranty ¹²	One of the following, configurable by model:								
Weight ²	from 3.3 lb (1.49kg)								• 1-year depot repair service • 3-year/1-yr battery depot repair service (US only)								
Case color	Graphite Black							Mil-Spec test	MIL-STD-810G military certification								
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant								

See footnotes for more detailed information

(MR15AW-3) © Lenovo

ThinkPad 11e (2nd Gen) 20EE (AMD) - 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)
20EE0002US	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	3-depot	No	03/15
20EE0004US	A4-6210	Radeon R3	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win8.1 P64	3-depot	No	03/15

Processor	Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform 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							Max battery life ¹⁰	<table><tr><th>Models</th><th>Windows 7</th><th>Windows 8</th></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models								Windows 7	Windows 8								
MobileMark® 2012	6.6 hr	6.68 hr															
Memory								AC adapter	45-watt AC adapter								
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							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								
Multi-touch	None								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)								
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							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)								
Weight ²	from 3.3 lb (1.49kg)																
Case color	Graphite Black							Mil-Spec test	MIL-STD-810G military certification								
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant								

See footnotes for more detailed information

(MR15AW-4) © Lenovo

ThinkPad 11e (2nd Gen) 20EE (AMD) - 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)
20EE000HUS	E2-6110	Radeon R2	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000JUS	E2-6110	Radeon R2	8GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000KUS	E2-6110	Radeon R2	8GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000LUS	E2-6110	Radeon R2	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000MUS	E2-6110	Radeon R2	4GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000NUS	A4-6210	Radeon R3	8GBx1	11.6" HD	128G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000PUS	A4-6210	Radeon R3	8GBx1	11.6" HD	64G SSD	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000QUS	A4-6210	Radeon R3	8GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000RUS	A4-6210	Radeon R3	4GBx1	11.6" HD	320G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000SUS	A4-6210	Radeon R3	4GBx1	11.6" HD	500G 7200	11ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20EE000TUS	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							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									
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							Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								
								Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
Chipset	Intel or AMD SoC (System on Chip) platform <i>Intel models:</i> 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets <i>AMD models:</i> 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
								Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
								Models	Windows 7	Windows 8							
								MobileMark® 2012	6.6 hr	6.68 hr							
AC adapter	45-watt AC adapter																
Preload	<i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64																
Memory	None Normal hinge, 180 degree							<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> 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)									
								• 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									
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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> 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							Limited warranty ¹² One of the following, configurable by model:									
Weight ²	from 3.3 lb (1.49kg)							• 1-year depot repair service • 3-year/1-yr battery depot repair service (US only)									
Case color	Graphite Black							Mil-Spec test MIL-STD-810G military certification									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant									

See footnotes for more detailed information

(MR15AW-7) © Lenovo

ThinkPad 11e (2nd Gen) 20E6 (Intel) - 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)
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							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									
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							Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								
								Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
Chipset	Intel or AMD SoC (System on Chip) platform 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							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
								Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
								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																
Memory	None							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								
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																

See footnotes for more detailed information

(MR15IW-1) © Lenovo

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							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform 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							Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models								Windows 7	Windows 8								
MobileMark® 2012	6.6 hr	6.68 hr															
Memory								AC adapter	45-watt AC adapter								
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							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								
Multi-touch	None								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)								
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							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)								
Weight ²	from 3.3 lb (1.49kg)																
Case color	Graphite Black							Mil-Spec test	MIL-STD-810G military certification								
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant								

See footnotes for more detailed information

(MR15IW-2) © Lenovo

ThinkPad 11e (2nd Gen) 20E6 (Intel) - 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)
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							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)									
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)									
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button									
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus									
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		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 chip	Power-on password, hard disk password, supervisor password, security keyhole									
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant									
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							Battery type	Integrated Lithium Polymer 4-cell (35Wh)									
Chipset	Intel or AMD SoC (System on Chip) platform							Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>				Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
Models	Windows 7	Windows 8																
MobileMark® 2012	6.6 hr	6.68 hr																
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							AC adapter	45-watt AC adapter									
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							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									
Multi-touch	None								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)									
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							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)									
Weight ²	from 3.3 lb (1.49kg)																	
Case color	Graphite Black							Mil-Spec test	MIL-STD-810G military certification									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant									

See footnotes for more detailed information

(MR15IW-5) © Lenovo

ThinkPad 11e (2nd Gen) 20E8 (Intel)

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)
20E8000EUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win7 P64	1-depot	Yes	04/15
20E8000KUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win7 P64	1-depot	Yes	04/15
20E8000LUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win7 P64	1-depot	Yes	04/15
20E8000FUS	5Y10c	HD 5300	4GBx1	11.6" HD	120G SSD	7265 ac+BT	Black	720p	None	4	45W	Win7 P64	1-depot	Yes	06/15
20E8000QUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20E8000RUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20E8000SUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20E8000TUS	5Y10c	HD 5300	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20E8000UUS	5Y10c	HD 5300	8GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15
20E8000VUS	5Y10c	HD 5300	8GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 DG Win7	1-depot	Yes	08/15

Processor	Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									
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							Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								
								Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
Chipset	Intel or AMD SoC (System on Chip) platform 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							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
								Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
								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																
Memory	None							Some: Windows 8.1 64-bit									
								Some: Windows 8.1 Pro 64-bit									
								Some: Windows 10 Home 64									
								Some: Windows 10 Pro 64									
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							• Lenovo Solution Center									
								• Lenovo SHAREit									
								• Lenovo REACHit									
								• Lenovo Companion									
Multi-touch	None							• 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)									
Hinge	Normal hinge, 180 degree							• McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)									
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	Ports																
Control buttons	Camera																
Audio support	Keyboard																
Keyboard	Touchpad																
Touchpad	Security chip																
Security chip	Fingerprint reader																
Fingerprint reader	Battery type																
Battery type	Max battery life ¹⁰																
Max battery life ¹⁰	AC adapter																
AC adapter	Preload																
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																
Some: Windows 8.1 64-bit	Some: Windows 8.1 Pro 64-bit																
Some: Windows 10 Home 64	Some: Windows 10 Pro 64																
Some: Windows 10 Pro 64	• Lenovo Solution Center																
• Lenovo SHAREit	• Lenovo REACHit																
• Lenovo REACHit	• Lenovo Companion																
• Lenovo Companion	• Lenovo Photo Editor (Win8.1 model)																
• Lenovo Photo Editor (Win8.1 model)	• Lenovo Video Editor (Win8.1 model)																
• Lenovo Video Editor (Win8.1 model)	• Microsoft Office preloaded; purchase a product key to activate																
• Microsoft Office preloaded; purchase a product key to activate	• Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)																
• 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)																
• McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)	Limited warranty ¹² One of the following, configurable by model:																
Limited warranty ¹² One of the following, configurable by model:	• 1-year depot repair service																
• 1-year depot repair service	• 3-year/1-yr battery depot repair service (US only)																
• 3-year/1-yr battery depot repair service (US only)	Mil-Spec test																
Mil-Spec test	Environment																
Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant																

See footnotes for more detailed information

(MR15IW-3) © Lenovo

ThinkPad 11e (2nd Gen) 20E8 (Intel) - 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)
20E8000GUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	Yes	04/15
20E8000JUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	Yes	04/15
20E8000MUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	Yes	04/15
20E8000DUS	5Y10c	HD 5300	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	Yes	05/15
20E8000HUS	5Y10c	HD 5300	4GBx1	11.6" HD	120G SSD	7265 ac+BT	Black	720p	None	4	45W	Win8.1 P64	1-depot	Yes	06/15

Processor	Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Control buttons	Power button, volume control button								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Camera	HD720p resolution, low light sensitive, fixed focus								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack									
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							Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys								
								Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
Chipset	Intel or AMD SoC (System on Chip) platform							Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
	Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets							Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
	Models	Windows 7	Windows 8														
	MobileMark® 2012	6.6 hr	6.68 hr														
AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket							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)									
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio							Preload									
Multi-touch	None																
Hinge	Normal hinge, 180 degree																
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high																
Optical	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™							Preload									
	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							Preload									
	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							Preload									
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							Preload									
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ThinkPad 11e (2nd Gen) 20E8 (Intel) - 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)
20E8000WUS	5Y10c	HD 5300	4GBx1	11.6" HD	320G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E8000XUS	5Y10c	HD 5300	4GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E8000YUS	5Y10c	HD 5300	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E80010US	5Y10c	HD 5300	4GBx1	11.6" HD	64G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E80011US	5Y10c	HD 5300	8GBx1	11.6" HD	64G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E80012US	5Y10c	HD 5300	8GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E80013US	5Y10c	HD 5300	8GBx1	11.6" HD	500G 7200	7265 ac+BT	Black	720p	None	4	45W	Win10 P64	1-depot	No	09/15
20E80014US	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							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45)								
	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button								
	5Y10c	2	800 MHz	2 GHz	4MB	DDR3L-1600	Intel HD Graphics 5300	Camera	HD720p resolution, low light sensitive, fixed focus								
	A4-6210	4	1.8 GHz	-	2MB		Radeon™ R3 Graphics	Audio support	HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack								
E2-6110	4	1.5 GHz	-	2MB	Radeon R2 Graphics		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys									
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							Touchpad	Buttonless touchpad below keyboard, multi-touch								
								Security chip	Power-on password, hard disk password, supervisor password, security keyhole								
								Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant								
								Battery type	Integrated Lithium Polymer 4-cell (35Wh)								
Chipset	Intel or AMD SoC (System on Chip) platform							Max battery life ¹⁰	<table><tr><td>Models</td><td>Windows 7</td><td>Windows 8</td></tr><tr><td>MobileMark® 2012</td><td>6.6 hr</td><td>6.68 hr</td></tr></table>			Models	Windows 7	Windows 8	MobileMark® 2012	6.6 hr	6.68 hr
												Models	Windows 7	Windows 8			
MobileMark® 2012	6.6 hr	6.68 hr															
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							AC adapter	45-watt AC adapter								
Multi-touch	None																
Hinge	Normal hinge, 180 degree																
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high																
Optical	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™							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)								
		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																
												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

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)
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							Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, HDMI, Ethernet (RJ-45)	
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics	Camera	HD720p resolution, low light sensitive, fixed focus
	Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510	Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
i3-6100U	2.3 GHz			-	3MB	Intel HD graphics 520	Keyboard Touchpad	ThinkPad Windows keyboard, 6-row, multimedia Fn keys Buttonless touchpad below keyboard, multi-touch		
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							Security chip vPro	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None	
Chipset	Intel SoC (System on Chip) platform							Fingerprint reader	None	
Memory	2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket							Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio							Max battery life ¹⁰	MobileMark® 2014: 11.53 hr	
Multi-touch Hinge	None Normal hinge, 180 degree							AC adapter	45-watt AC adapter	
Storage Optical	M.2 Solid State Drive (SSD), SATA 6.0Gb/s None							Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Some: Windows 10 Home 64 Some: Windows 10 Pro 64
Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection								• Lenovo Solution Center	• Lenovo Solution Center
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								• ThinkVantage Product Recovery	• Lenovo Companion
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								• Rescue and Recovery™	• Lenovo Setting
WWAN	None								• ThinkVantage System Update	• Microsoft Office preloaded; purchase a product key to activate
Dimensions ³	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm								• Adobe® Reader®	• McAfee® LiveSafe™ (30-day trial)
Weight ²	from 3.3 lb (1.5kg)								• Microsoft® Office preloaded; purchase a product key to activate	
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black								• McAfee® LiveSafe™ (30-day trial)	
Case material	Display cover: PC+40%GF+TPU; Bottom: PCC							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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ThinkPad 11e (3rd Gen) Chromebook

Product Specifications Reference (PSREF)



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)

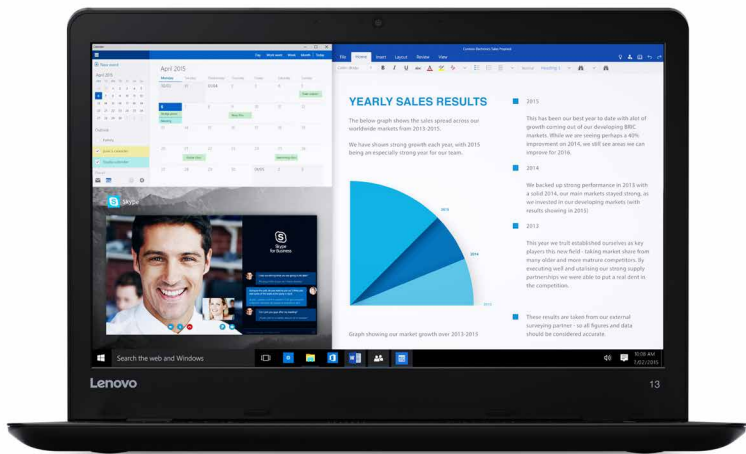
Product Specifications Reference (PSREF)

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)
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								Dimensions ³	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Weight ²	from 3.3 lb (1.5kg)
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	LPDDR3-1600	Intel HD graphics	Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black
									Case material	Display cover: PC+40%GF+TPU; Bottom: PCC
Graphics	Intel HD Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
									Ports	Two USB 3.0 (one Always On), HDMI
									Control buttons	None
Chipset	Intel SoC (System on Chip) platform								Camera	HD720p resolution, low light sensitive, fixed focus
Memory	2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets								Audio support	Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio								Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Multi-touch	None								Touchpad	Buttonless touchpad below keyboard, multi-touch
Hinge	Normal hinge, 180 degree								Security	Security keyhole
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board								Security chip	Trusted Platform Module, TCG 1.2-compliant
Optical	None								vPro	None
Ethernet	None								Fingerprint reader	None
WLAN ⁴	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card								Battery	Integrated Lithium Polymer 3-cell (42Wh)
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Max battery life ¹⁰	Up to 12 hr
WWAN	None								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

See footnotes for more detailed information

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Lenovo® ThinkPad 13



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ThinkPad 13 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor								Smart card reader	None	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector	
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR4-2133	Intel HD graphics 510	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	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								Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	
Chipset	Intel SoC (System on Chip) platform								Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets								Battery	Integrated Lithium Polymer 3-cell (42Wh)	
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								Max battery life ¹⁰	MobileMark® 2014: 11.6 hr	
Multi-touch	None								AC adapter	45-watt AC adapter	
Storage	M.2 SSD / SATA 6.0Gb/s								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)	
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								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	
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								Mil-Spec test	MIL-STD-810G military certification	
Case material	Black cover: PC/ABS plastic; Silver cover: Aluminum								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant	

ThinkPad 13 20GJ (TopSeller)

Product Specifications Reference (PSREF)

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						Smart card readerNone Media reader4-in-1 reader (MMC, SD, SDHC, SDXC) PortsThree USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector CameraHD720p resolution, low light sensitive, fixed focus Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack KeyboardThinkPad Windows keyboard, 6-row, multimedia Fn keys UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch SecurityPower-on password, hard disk password, supervisor password, security keyhole Security chipTrusted Platform Module, TCG 1.2-compliant vPro (optional)Intel vPro Technology Fingerprint readerOptional: Swipe style fingerprint reader on the keyboard bezel BatteryIntegrated Lithium Polymer 3-cell (42Wh) Max battery life ¹⁰ MobileMark® 2014: 11.6 hr AC adapter45-watt AC adapter PreloadWin7 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
	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						

See footnotes for more detailed information

(BL1W-1) © Lenovo

ThinkPad 13 20GJ (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

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
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						Smart card readerNone Media reader4-in-1 reader (MMC, SD, SDHC, SDXC) PortsThree USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector CameraHD720p resolution, low light sensitive, fixed focus Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack KeyboardThinkPad Windows keyboard, 6-row, multimedia Fn keys UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch SecurityPower-on password, hard disk password, supervisor password, security keyhole Security chipTrusted Platform Module, TCG 1.2-compliant vPro (optional)Intel vPro Technology Fingerprint readerOptional: Swipe style fingerprint reader on the keyboard bezel BatteryIntegrated Lithium Polymer 3-cell (42Wh) Max battery life ¹⁰ MobileMark® 2014: 11.6 hr AC adapter45-watt AC adapter PreloadWin7 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
	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						

See footnotes for more detailed information

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Lenovo® ThinkPad X240



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Lenovo ThinkPad X240

ThinkPad X240 Platform Specifications

Product Specifications Reference (PSREF)

Positioning	Ultraportable Ultrabook™ or Thinbook; one spindle								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	
Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor								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)	
	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 Storage	None 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								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	
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								Bluetooth™ Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
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								NFC		
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture								Security chip	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus								vPro (optional)	Intel vPro Technology	
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)								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight								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 service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)	
UltraNav™	TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch								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)	
ThinkLight™	None									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)	
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										
									Mil-Spec test	MIL-STD-810G military certification	
									Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant	

ThinkPad X240 20AL (TopSeller)

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)
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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600			ThinkLight™	None	
	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						Chipset	Intel SoC (System on Chip) platform			
Optical Storage	None						Smart card reader	Optional: Smart card reader			
	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						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						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			
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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Graphics	Intel HD Graphics 4400 in processor						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
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						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)			
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell		NFC	Optional: Near Field Communication			
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg		Security	Power-on password, hard disk password, supervisor password, security keyhole			
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg		Security chip	Trusted Platform Module, TCG 1.2-compliant			
Case material	Glass-Fiber Reinforced Plastic						vPro (optional)	Intel vPro Technology			
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit			
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		Win8 / 8.1 64: Windows 8 / 8.1 64-bit	Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit		
AC adapter	45-watt AC adapter						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

(WV1-1) © Lenovo

ThinkPad X240 20AL (TopSeller) - II

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	Camera	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					Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	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					Chipset	Intel SoC (System on Chip) platform		
Optical Storage	None					Smart card reader	Optional: Smart card reader		
	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					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
M.2 SSD	Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector		
	Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card					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		
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					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture					SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Graphics	Intel HD Graphics 4400 in processor					Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication		
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					NFC			
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell	Security	Power-on password, hard disk password, supervisor password, security keyhole		
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg	Security chip	Trusted Platform Module, TCG 1.2-compliant		
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg	vPro (optional)	Intel vPro Technology		
Case material	Glass-Fiber Reinforced Plastic					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication					Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit		
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Win8 / 8.1 64: Windows 8 / 8.1 64-bit		
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh	3-cell + 6-cell		Win8 / 8.1 Pro 64-bit		
	Battery life	8.7 hr	13.1 hr		17.4 hr				
AC adapter	45-watt AC adapter					Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite			

See footnotes for more detailed information

(WV1-2) © Lenovo

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	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						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	ThinkLight™	None	
	i5-4200U		1.6 GHz	2.6 GHz	3MB		Chipset	Intel SoC (System on Chip) platform	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	Optional: Smart card reader	
i7-4600U	2.1 GHz		3.3 GHz	4MB	Media reader		4-in-1 reader (MMC, SD, SDHC, SDXC)		
Memory	8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Optical Storage	None 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						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	
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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
Graphics	Intel HD Graphics 4400 in processor						NFC	Security Security chip vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
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						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	
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell		Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
	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								

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(WV1-3) © Lenovo

ThinkPad X240 20AM (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	Camera	Backlit key-board	Finger-print reader	NFC	Battery (int+ext)	Power cells(adapter (watt))	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AM009FUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM009JUS	i5-4300U	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	Yes	03/14
20AM009KUS	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	Yes	03/14
20AM009MUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" FHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM009PUS	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	Yes	03/14
20AM00AMUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	05/14
20AM00ANUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	05/14
20AM00AQUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	05/14
20AM0014US	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	Yes	10/13
20AM0016US	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 P64	3-depot	Yes	10/13
20AM0019US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	None	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM001CUS	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	Yes	10/13
20AM001FUS	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 P64	3-depot	Yes	10/13
20AM001JUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM001VUS	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 P64	3-depot	Yes	10/13
20AM004MUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM004RUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13
20AM004TUS	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 P64	3-depot	Yes	10/13
20AM004VUS	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 P64	3-depot	Yes	10/13
20AM004YUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	EM7355	Select	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13
20AM0052US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	ThinkLight™	None	
	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						Chipset	Intel SoC (System on Chip) platform	
Optical Storage	None 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						Smart card reader	Optional: Smart card reader	
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						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
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						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						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	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Graphics	Intel HD Graphics 4400 in processor						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	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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell	Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)		
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg	NFC	Optional: Near Field Communication		
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg	Security	Power-on password, hard disk password, supervisor password, security keyhole		
Case material	Glass-Fiber Reinforced Plastic						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						vPro (optional)	Intel vPro Technology	
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh	3-cell + 6-cell	72Wh	Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	Battery life	8.7 hr	13.1 hr					Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
AC adapter	45-watt AC adapter						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(WV1-4) © Lenovo

ThinkPad X240 20AM (Windows 8) - II

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells(adapter (int+ext))	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AM0054US	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM0057US	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD	No	180G SSD Opal	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13
20AM0059US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	EM7355 Select	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 P64	3-depot	Yes	11/13
20AM0060US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	256G SSD eDrive	7260 ac+BT	Upd	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 P64	3-depot	No	11/13
20AM0061US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AM0066US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AM006FUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AM009RUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	180G SSD Opal	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM009UUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM009XUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM009YUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	03/14
20AM00APUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	05/14
20AM00ARUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-depot	Yes	05/14
20AM001BUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM001DUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM001KUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	MT	128G SSD	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM001LUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	Upd	None	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 P64	3-depot	Yes	10/13
20AM001QUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	128G SSD	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM004LUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM0053US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upd	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	10/13
20AM005AUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	ThinkLight™	None		
	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						Chipset	Intel SoC (System on Chip) platform		
Optical Storage	None 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 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						Smart card reader	Optional: Smart card reader		
M.2 SSD							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
Widescreen display							Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector		
Multi-touch							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		
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Graphics	Intel HD Graphics 4400 in processor						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	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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Weight ²							Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication		
	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell		NFC			
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg		Security	Power-on password, hard disk password, supervisor password, security keyhole		
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg		Security chip	Trusted Platform Module, TCG 1.2-compliant		
Case material	Glass-Fiber Reinforced Plastic						vPro (optional)	Intel vPro Technology		
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor		
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit		
Max battery life ¹⁰								Win8 / 8.1 64: Windows 8 / 8.1 64-bit		
								Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit		
AC adapter	45-watt AC adapter						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite			

See footnotes for more detailed information

(WV1-5) © Lenovo

ThinkPad X240 20AM (Windows 8) - III

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(adapter (int+ext))	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AM005BUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	Yes	11/13
20AM0062US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-depot	No	11/13
20AM0069US	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
20AM006AUS	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 P64	3-depot	No	11/13
20AM006GUS	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

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600			ThinkLight™	None	
	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						Chipset	Intel SoC (System on Chip) platform			
Optical Storage	None						Smart card reader	Optional: Smart card reader			
	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						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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						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			
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						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
Graphics	Intel HD Graphics 4400 in processor						Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication			
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						NFC				
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell		Security	Power-on password, hard disk password, supervisor password, security keyhole			
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg		Security chip	Trusted Platform Module, TCG 1.2-compliant			
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg		vPro (optional)	Intel vPro Technology			
Case material	Glass-Fiber Reinforced Plastic						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit			
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication							Win8 / 8.1 64-bit Win8 / 8.1 P64-bit			
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh	3-cell + 6-cell	72Wh		Windows 8 / 8.1 Pro 64-bit			
	Battery life	8.7 hr	13.1 hr								
AC adapter	45-watt AC adapter						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite				

See footnotes for more detailed information

(WV1-6) © Lenovo

ThinkPad X240 20AM (Onsite) - 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(adapter (int+ext))	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AM009GUS	i5-4300U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20AM009HUS	i5-4300U	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-onsite	Yes	03/14
20AM009LUS	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-onsite	Yes	03/14
20AM009NUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" FHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20AM009QUS	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-onsite	Yes	03/14
20AM001AUS	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-onsite	Yes	10/13
20AM001HUS	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 P64	3-onsite	Yes	10/13
20AM001SUS	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-onsite	Yes	10/13
20AM001UUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	10/13
20AM004PUS	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 P64	3-onsite	Yes	10/13
20AM004QUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	10/13
20AM004SUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	EM7355	Select	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM004UUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM004XUS	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 P64	3-onsite	Yes	10/13
20AM0050US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM0055US	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 P64	3-onsite	Yes	10/13
20AM0056US	i5-4300U	vPro	HD 4400	8GBx1	12.5" HD	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM0058US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD	No	500G 7200	7260 ac+BT	EM7355	Select	None	720p	None	Finger	None	No+6(72wh)	45W	Win8 P64	3-onsite	Yes	11/13
20AM0064US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	No	11/13
20AM0065US	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 P64	3-onsite	No	11/13
20AM0067US	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-onsite	No	11/13

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor					Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	ThinkLight™	None
	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					Chipset	Intel SoC (System on Chip) platform	
Optical Storage	None 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 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					Smart card reader	Optional: Smart card reader	
M.2 SSD						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Widescreen display						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Multi-touch						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	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Graphics	Intel HD Graphics 4400 in processor					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	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					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell	Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication	
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg	NFC		
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg	Security	Power-on password, hard disk password, supervisor password, security keyhole	
Case material	Glass-Fiber Reinforced Plastic					Security chip	Trusted Platform Module, TCG 1.2-compliant	
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication					vPro (optional)	Intel vPro Technology	
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh	3-cell + 6-cell	Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	Battery life	8.7 hr	13.1 hr		17.4 hr		Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit	
AC adapter	45-watt AC adapter					Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(WV1-7) © Lenovo

ThinkPad X240 20AM (Onsite) - Windows 8 - II

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(adapter (int+ext))	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20AM006DUS	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 P64	3-onsite	No	11/13
20AM006EUS	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-onsite	No	11/13
20AM009SUS	i7-4600U	vPro	HD 4400	8GBx1	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-onsite	Yes	03/14
20AM009TUS	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-onsite	Yes	03/14
20AM009VUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20AM009WUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" FHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8.1 P64	3-onsite	Yes	03/14
20AM0011US	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-onsite	Yes	10/13
20AM0012US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	10/13
20AM0015US	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 P64	3-onsite	Yes	10/13
20AM001MUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	10/13
20AM001PUS	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 P64	3-onsite	Yes	10/13
20AM004NUS	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM004WUS	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	10/13
20AM0051US	i7-4600U	vPro	HD 4400	8GBx1	12.5" HD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355 Select	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	Yes	11/13
20AM005CUS	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 P64	3-onsite	Yes	10/13
20AM0063US	i7-4600U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	No	11/13
20AM0068US	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-onsite	No	11/13
20AM006BUS	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-onsite	No	11/13
20AM006CUS	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 P64	3-onsite	No	11/13

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch	
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600	ThinkLight™	None	
	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						Chipset	Intel SoC (System on Chip) platform	
Optical Storage	None 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 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						Smart card reader	Optional: Smart card reader	
M.2 SSD							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Widescreen display							Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector	
Multi-touch							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	
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Graphics	Intel HD Graphics 4400 in processor						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	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						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell	Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication		
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg	NFC			
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg	Security	Power-on password, hard disk password, supervisor password, security keyhole		
Case material	Glass-Fiber Reinforced Plastic						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						vPro (optional)	Intel vPro Technology	
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor	
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh	3-cell + 6-cell	72Wh	Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit	
	Battery life	8.7 hr	13.1 hr	17.4 hr	Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit				
AC adapter	45-watt AC adapter						Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(WV1-8) © Lenovo

ThinkPad X240 20AM (Onsite) - Windows 8 - III

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	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20AM001NUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	7260 ac+BT	Upg	None	16GB	720p	Backlit	Finger	None	3+3	45W	Win8 P64	3-onsite	OID	Yes 10/13
20AM001RUS	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 P64	3-onsite	OID	Yes 10/13
20AM001TUS	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 P64	3-onsite	OID	Yes 10/13

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor						Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch		
	i3-4010U	2	1.7 GHz	-	3MB	DDR3L-1600			ThinkLight™	None	
	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						Chipset	Intel SoC (System on Chip) platform			
Optical Storage	None 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						Smart card reader	Optional: Smart card reader			
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						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
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 Some: Capacitive-type multi-touch, supports 10-finger gesture						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector			
Multi-touch	Camera (optional) HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus						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			
Graphics	Intel HD Graphics 4400 in processor						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+/EVDO/GSM/GPRS/EDGE, GPS			
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						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider			
Weight ²	Models	3-cell only	6-cell only	3-cell + 3-cell	3-cell + 6-cell		Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter			
	Non-MultiTouch	2.88 lb / 1.31kg	3.23 lb / 1.47kg	3.13 lb / 1.42kg	3.48 lb / 1.58kg		Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)			
	MultiTouch	-	-	3.29 lb / 1.49kg	3.64 lb / 1.65kg		NFC	Optional: Near Field Communication			
	Case material	Glass-Fiber Reinforced Plastic						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication						Security chip	Trusted Platform Module, TCG 1.2-compliant			
External battery	Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication						vPro (optional)	Intel vPro Technology			
Max battery life ¹⁰	Battery configuration	3-cell + 3-cell	3-cell + 6-cell	47.5Wh		3-cell + 6-cell	Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
	Battery life	8.7 hr	13.1 hr	17.4 hr		Preload	Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit				
	AC adapter	45-watt AC adapter						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

(WV1-9) © Lenovo



Lenovo® ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250

ThinkPad X250 Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader	Optional: Smart card reader																			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																			
	i5-4300U	2	4	1.9 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD graphics 4400	Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector																			
	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)								Camera (optional)	HD720p resolution, low light sensitive, fixed focus																			
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																			
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																			
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								Security	Power-on password, hard disk password, supervisor password, security keyhole																			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits								Security chip	Trusted Platform Module, TCG 1.2-compliant																			
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								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot								vPro (optional)	Intel vPro Technology																			
Optical	None								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor																			
Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)																			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																			
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								Max battery life ¹⁰	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16.0 hr</td><td>21.4 hr</td></tr></table>				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						
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																									
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								AC adapter	45W AC adapter																			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								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 Vantage 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)																			
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								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)																				
Weight ²	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>No + 6-cell</th><th>3-cell + 6-cell</th></tr><tr><td>Non-touch</td><td>2.88 lb / 1.31 kg</td><td>3.13 lb / 1.42 kg</td><td>3.23 lb / 1.47 kg</td><td>3.48 lb / 1.58 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>3.29 lb / 1.49 kg</td><td>-</td><td>3.64 lb / 1.65 kg</td></tr></table>								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	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)				
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								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)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	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						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						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell		
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600		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		
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg		
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Smart card readerOptional: Smart card reader	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
	i7-5600U		2.6 GHz	3.2 GHz	4MB					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector			
Graphics	Intel HD Graphics 5500 in processor						Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack						
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
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						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Security	Power-on password, hard disk password, supervisor password, security keyhole						
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						Security chip	Trusted Platform Module, TCG 1.2-compliant						
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						vPro (optional)	Intel vPro Technology						
Optical	None						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
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						Max battery life ¹⁰	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh		
WWAN (optional)	Upg: Wireless WAN upgradeable 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						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 Windows 8.1 64-bit Windows 8.1 Pro 64-bit Windows 10 Pro 64				
									Win8.1 64: Win8.1 P64: Win10 P64:					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(WV2-1) © Lenovo

ThinkPad X250 20CM (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CM005XUS	i7-5600U	vPro	HD 5500	4GBx1	12.5" FHD IPS	MT	512G SSD	None	7265 ac+BT	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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	Upd	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					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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600		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
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	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					Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
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					vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradeable 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					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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					

See footnotes for more detailed information

(WV2-5) © Lenovo

ThinkPad X250 20CM (TopSeller) - III

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	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					Dimensions ³ Weight ² Case material	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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB		DDR3L-1600	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
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
	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					Smart card readerOptional: Smart card reader						
Chipset	Intel SoC (System on Chip) platform					Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)						
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					PortsTwo USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector						
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					Camera (optional)HD720p resolution, low light sensitive, fixed focus						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Audio supportHD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack						
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					Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Optical	None					SecurityPower-on password, hard disk password, supervisor password, security keyhole						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security chipTrusted Platform Module, TCG 1.2-compliant						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					vPro (optional)Intel vPro Technology						
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					Fingerprint readerOptional: Fingerprint reader on the keyboard bezel, swipe sensor						
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					Internal batteryOptional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					External batteryLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
							Max battery life ¹⁰					
							ModelsNo + 3-cell3-cell + 3-cell3-cell + 6-cell 48Wh3-cell + 6-cell 72Wh					
							Battery life5.2 hr10.7 hr16.0 hr21.4 hr					
							AC adapter45W AC adapter					
							PreloadWin8.1 / 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

(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	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	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					Dimensions ³ Weight ² Case material	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														
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell									
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB		DDR3L-1600	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									
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg									
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic													
	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					Smart card reader <i>Optional:</i> Smart card reader															
Chipset	Intel SoC (System on Chip) platform					Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)															
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					Ports Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector															
Display	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio <i>Some:</i> 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS <i>Some:</i> 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS					Camera (<i>optional</i>) HD720p resolution, low light sensitive, fixed focus															
Multi-touch (<i>opt</i>)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack															
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory					Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight															
M.2 SSD (<i>opt</i>)	M.2 Solid State Drive (SSD), via M.2 card slot					UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch															
Optical	None					Security Power-on password, hard disk password, supervisor password, security keyhole															
Ethernet	Intel Ethernet Connection I218-V (<i>Non-vPro model</i>) or I218-LM (<i>vPro model</i>)					Security chip Trusted Platform Module, TCG 1.2-compliant															
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					vPro (<i>optional</i>) Intel vPro Technology															
WLAN ⁴	<i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7265 b/g/n+BT:</i> Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card <i>7265 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card <i>7265 ac+BT:</i> Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card					Fingerprint reader <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor															
WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradable <i>N5321:</i> Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card <i>EM7345:</i> Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Internal battery <i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23Wh)															
SIM card (<i>opt</i>)	AT&T® or Verizon® LTE (4G), contract required with service provider					External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)															
							Max battery life ¹⁰														
							<table><tr><td>Models</td><td>No + 3-cell</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell 48Wh</td><td>3-cell + 6-cell 72Wh</td></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16.0 hr</td><td>21.4 hr</td></tr></table>					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
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														
							<i>Win8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64														
							<i>Win8.1 64:</i> Windows 8.1 64-bit														
							<i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit														
							<i>Win10 P64:</i> 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

(WV2-7) © Lenovo

ThinkPad X250 20CL

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)
20CL0019US	i5-5300U	vPro	HD 5500	4GBx1	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	01/15
20CL001AUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	500G 5400	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20CL001HUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 5400	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15
20CL001KUS	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 5400	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CL001MUS	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
20CL005AUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	05/15
20CL0059US	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	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					Dimensions ³ Weight ² Case material	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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB		DDR3L-1600	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
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
	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					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
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					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
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					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Optical	None					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security chip	Trusted Platform Module, TCG 1.2-compliant					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					vPro (optional)	Intel vPro Technology					
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					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
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					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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					

See footnotes for more detailed information

(WV2-2) © Lenovo

ThinkPad X250 20CL (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob- al	Ann date (m/y)
20CL001DUS	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-onsite	Yes	01/15
20CL001FUS	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	Win8.1 DG Win7	3-onsite	Yes	01/15
20CL001GUS	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-onsite	Yes	01/15
20CL001JUS	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	Win8.1 DG Win7	3-onsite	Yes	01/15
20CL001NUS	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-onsite	Yes	01/15
20CL001BUS	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	Win8.1 DG Win7	3-onsite	Yes	01/15
20CL001LUS	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-onsite	Yes	01/15
20CL00A9US	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00AAUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00ABUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A6US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A7US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A8US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A0US	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A1US	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A2US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A3US	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A4US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15
20CL00A5US	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	08/15

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor					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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600		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
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	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					Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
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					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
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					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
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					vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradeable 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					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					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					

See footnotes for more detailed information

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ThinkPad X250 20CL (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	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)	Glob-al	Ann date (m/y)
20CL001CUS	i5-5300U	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	Win8.1 P64	3-onsite	Yes	01/15
20CL001EUS	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	Win8.1 P64	3-onsite	Yes	01/15

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						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						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell	
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600			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	
	i3-5010U		2.1 GHz	-	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg	
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
	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						Smart card reader		Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)						
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector						
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						Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack						
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology						
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						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor						
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						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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						

See footnotes for more detailed information

(WV2-4) © Lenovo

ThinkPad X250 20CL (Onsite) - 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	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CL00BKUS	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BLUS	i5-5200U	No	HD 5500	4GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BSUS	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-onsite	Yes	09/15
20CL00BUUS	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BVUS	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-onsite	Yes	09/15
20CL00BJUS	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 P64	3-onsite	Yes	09/15
20CL00BMUS	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 P64	3-onsite	Yes	09/15
20CL00BNUS	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-onsite	Yes	09/15
20CL00BPUS	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-onsite	Yes	09/15
20CL00BQUS	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 P64	3-onsite	Yes	09/15
20CL00BRUS	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-onsite	Yes	09/15
20CL00BTUS	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 P64	3-onsite	Yes	09/15
20CL00BWUS	i7-5600U	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 P64	3-onsite	Yes	09/15
20CL00BXUS	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						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				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-4300U	2	1.9 GHz	2.9 GHz	3MB	DDR3L-1600		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
	i3-5010U		2.1 GHz	-	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	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						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
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						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
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						vPro (optional)	Intel vPro Technology				
							Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
WWAN (optional)	Upg: Wireless WAN upgradeable 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						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			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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

(WV2-8) © Lenovo



Lenovo® ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260

ThinkPad X260 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD graphics 520	Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector	
	i5-6200U			2.3 GHz	2.8 GHz	3MB			WiGig dock (<i>opt</i>)	WiGig dock, mutually exclusive with WWAN	
	i5-6300U			2.4 GHz	3.0 GHz	3MB			Monitor cable	<i>Optional</i> : HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable	
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Camera (<i>optional</i>)	HD720p resolution, low light sensitive, fixed focus	
	i7-6600U			2.6 GHz	3.4 GHz	4MB			Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack	
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)								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight	
									UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket								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	
Display	<i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio								vPro (<i>optional</i>)	Intel vPro Technology	
	<i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								Fingerprint reader	<i>Optional</i> : Swipe style fingerprint reader on the keyboard bezel	
	<i>Some</i> : 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								Internal battery	<i>Optional</i> : Integrated Li-Ion or Li-Polymer 3-cell (23Wh)	
Multi-touch	None								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)	
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high								Max battery life ¹⁰	<i>(MobileMark® 2014)</i>	
	<i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high										
	<i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™										
	<i>Some</i> : SSHD with 8GB NAND flash memory										
Optical	None								AC adapter	45W AC adapter	
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville)								Preload	Windows® 7 Professional 64 preinstalled Windows 10 Pro 64 through downgrade rights in	
	<i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)									• Lenovo Solution Center	
WLAN ⁴	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN):</i>									• Lenovo SHAREit	
	• 11ac+BT, Broadcom BCM4356, 2x2, M.2 card									• Lenovo Solution Center	
	• 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card									• Lenovo Companion	
	• WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card									• Lenovo Setting	
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter									• Microsoft Office preloaded; purchase a product key to activate	
WWAN (<i>optional</i>)	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i>									• McAfee® LiveSafe™ (30-day trial)	
	• Wireless WAN upgradable								Limited warranty ¹²	<i>One of the following, configurable by model:</i>	
	• Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card									• 1-year depot repair service	
	• Wireless WAN, HUAWEI ME906S,									• 3-year/1-yr battery depot repair service	
	HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)									• 3-year/1-yr battery limited onsite service ²⁴	
SIM card (<i>opt</i>)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card									• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)	
Dimensions ³	<i>WxDxH</i> : 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm								Mil-Spec test	MIL-STD-810G military certification	
Weight ²									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant	
	<i>Models</i>	<i>No + 3-cell</i>	<i>3-cell + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>						
	<i>Weight</i>	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										

ThinkPad X260 20F6 (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint 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						Dimensions ³ Weight ²	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm											
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh							
	i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133		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							
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic											
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card readerOptional: Smart card reader											
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)											
i7-6600U	2.6 GHz		3.4 GHz	4MB	PortsThree USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector														
							WiGig dock (opt) WiGig dock, mutually exclusive with WWAN												
Graphics	Intel HD Graphics 520 in processor						Monitor cableOptional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable												
Chipset	Intel SoC (System on Chip) platform						Camera (optional)HD720p resolution, low light sensitive, fixed focus												
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket						Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack												
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						Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight												
Multi-touch	None						UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch												
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						SecurityPower-on password, hard disk password, supervisor password, security keyhole												
Optical	None						Security chipTrusted Platform Module, TCG 1.2-compliant												
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)Intel vPro Technology												
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						Fingerprint readerOptional: Swipe style fingerprint reader on the keyboard bezel												
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal batteryOptional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)												
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)						External batteryLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)												
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Max battery life ¹⁰		Models			No + 3-cell		3-cell + 3-cell		3-cell + 6-cell 48Wh		3-cell + 6-cell 72Wh	
							(MobileMark® 2014)		Max battery life		6 hr		12 hr		18.5 hr		25 hr		
							AC adapter45W AC adapter												
							PreloadWin10 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 X260 20F6 (TopSeller) - II

Product Specifications Reference (PSREF)

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)
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						Dimensions ³ Weight ²	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133		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
	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						Case material	Glass-Fiber Reinforced Plastic				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader				
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
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						Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
Multi-touch	None						WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN				
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						Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable				
Optical	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
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						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
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)						Security	Power-on password, hard disk password, supervisor password, security keyhole				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
							(MobileMark® 2014)	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				

See footnotes for more detailed information

US model(s) withdrawn effective April 2016

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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	Camera	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						Dimensions ³ Weight ²	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133		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
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	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						Smart card reader	Optional: Smart card reader				
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket						Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
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						WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN				
Multi-touch	None						Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable				
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						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Optical	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
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						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security	Power-on password, hard disk password, supervisor password, security keyhole				
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)						Security chip	Trusted Platform Module, TCG 1.2-compliant				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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
							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 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

Product Specifications Reference (PSREF)

ThinkPad Y1 Carbon (2nd Gen) Platform Specifications Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i5 / i7 Processor								Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack													
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	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													
	i5-4200U	2	4	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Intel HD Graphics 4400	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)													
	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								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													
Optical Storage	None M.2 Solid State Drive (SSD)								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter													
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS , 170° viewing angle <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input Ambient Light Sensor (Windows 8.1 64-bit only)								Ethernet	Ethernet Extension cable													
Multi-touch	<i>Some:</i> 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; <i>Max resolution:</i> 3840x2160 (Mini DisplayPort) @30Hz; 2880x1620 (HDMI) @60Hz								NFC	<i>Optional:</i> Near Field Communication													
Camera									Security		Power-on password, hard disk password, supervisor password, security keyhole, reset switch												
Light sensor	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 TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch								Security chip vPro (optional)	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology													
Graphics									Fingerprint reader		Fingerprint reader on the keyboard bezel, swipe sensor												
Keyboard	None								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 service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)													
UltraNav™									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)												
ThinkLight™	None									<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> 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)													
Dimensions ³									Dimensions ³		Dimensions ³												
	<i>WQHD (WxDxH):</i> 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm <i>HD+ (WxDxH):</i> 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm <i>WQHD Touch (WxDxH):</i> 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm																						
Weight ²	<table><tr><td><i>Models</i></td><td><i>WQHD</i></td><td><i>HD+</i></td><td><i>WQHD Touch</i></td></tr><tr><td><i>Weight</i></td><td>2.82 lb / 1.28kg</td><td>2.96 lb / 1.34kg</td><td>3.15 lb / 1.43kg</td></tr></table>								<i>Models</i>	<i>WQHD</i>	<i>HD+</i>	<i>WQHD Touch</i>	<i>Weight</i>	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg							
<i>Models</i>	<i>WQHD</i>	<i>HD+</i>	<i>WQHD Touch</i>																				
<i>Weight</i>	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	<table><tr><td><i>AC Adapter</i></td><td><i>45W</i></td><td><i>65W Slim</i></td><td><i>65W</i></td></tr><tr><td><i>Charge to 80%</i></td><td>1.0hr</td><td>50min</td><td>50min</td></tr><tr><td><i>Charge to 100%</i></td><td>2.3hr</td><td>2.1hr</td><td>2.1hr</td></tr></table>								<i>AC Adapter</i>	<i>45W</i>	<i>65W Slim</i>	<i>65W</i>	<i>Charge to 80%</i>	1.0hr	50min	50min	<i>Charge to 100%</i>	2.3hr	2.1hr	2.1hr			
<i>AC Adapter</i>	<i>45W</i>	<i>65W Slim</i>	<i>65W</i>																				
<i>Charge to 80%</i>	1.0hr	50min	50min																				
<i>Charge to 100%</i>	2.3hr	2.1hr	2.1hr																				
Chipset	Intel SoC (System on Chip) platform								Mil-Spec test	MIL-STD-810G military certification													
Smart card reader	None								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant													
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	<i>Some:</i> Mini DisplayPort to VGA Monitor Cable																						

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 key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	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 b/g/n+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						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 TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	None		
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None		
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform		
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None		
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None		
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets							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)	
Optical Storage	None M.2 Solid State Drive (SSD)							Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable	
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio							WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card	
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS								7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card	
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card	
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input							WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
	Ambient Light Sensor (Windows 8.1 64-bit only)							SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider	
Graphics	Intel HD Graphics 4400 or 5000							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
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							Ethernet	Ethernet Extension cable Optional: Near Field Communication	
Weight ²	Models	WQHD		HD+		WQHD Touch	Security	Power-on / hard disk / supervisor password, security keyhole, reset switch		
	Weight	2.82 lb / 1.28kg		2.96 lb / 1.34kg		3.15 lb / 1.43kg	Security chip	Trusted Platform Module, TCG 1.2-compliant		
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum							vPro (optional)	Intel vPro Technology	
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery							Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor	
Max battery life ¹⁰	Integrated battery: up to 9 hr							Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter								Win8.1 64: Windows 8.1 64-bit	
RapidCharge	AC Adapter	45W		65W Slim		65W		Win8.1 P64: Windows 8.1 Pro 64-bit		
	Charge to 80%	1.0hr		50min		50min	Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		
	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									

See footnotes for more detailed information

(MQ1-1) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A7 (TS) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor 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						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 TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	None		
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None		
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform		
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None		
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None		
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets							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)	
Optical Storage	None M.2 Solid State Drive (SSD)							Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable	
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio							WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card	
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS								7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card	
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card	
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input							WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Graphics	Intel HD Graphics 4400 or 5000							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	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							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Weight ²	Models	WQHD		HD+		WQHD Touch		Ethernet	Ethernet Extension cable	
	Weight	2.82 lb / 1.28kg		2.96 lb / 1.34kg		3.15 lb / 1.43kg		NFC	Optional: Near Field Communication	
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum							Security	Power-on / hard disk / supervisor password, security keyhole, reset switch	
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery							Security chip	Trusted Platform Module, TCG 1.2-compliant	
Max battery life ¹⁰	Integrated battery: up to 9 hr							vPro (optional)	Intel vPro Technology	
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter							Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor	
RapidCharge	AC Adapter	45W		65W Slim		65W		Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
	Charge to 80%	1.0hr		50min		50min			Win8.1 64: Windows 8.1 64-bit	
	Charge to 100%	2.3hr		2.1hr		2.1hr			Win8.1 P64: Windows 8.1 Pro 64-bit	
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	

See footnotes for more detailed information

(MQ1-2) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sold)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20A8001CUS	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 64	3-depot	Yes	01/14
20A8001PUS	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 64	3-depot	Yes	01/14
20A8001RUS	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 64	3-depot	Yes	01/14
20A8001TUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A80021US	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 64	3-depot	Yes	01/14
20A80022US	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 64	3-depot	Yes	01/14
20A80023US	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 64	3-depot	Yes	01/14
20A80024US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8002CUS	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 P64	3-depot	Yes	01/14
20A8002PUS	i5-4300U	vPro	HD 4400	4GBx1	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	Yes	01/14
20A8002UUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80031US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80036US	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	Yes	01/14
20A80041US	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80047US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8007XUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80085US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80088US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A8002FUS	i5-4300U	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 P64	3-depot	Yes	01/14
20A8002GUS	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 P64	3-depot	Yes	01/14
20A8002KUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8002WUS	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	Yes	01/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor						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	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™		
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™		
	i5-4210U		1.7 GHz	2.7 GHz	3MB		None		
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Chipset		
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Intel SoC (System on Chip) platform		
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets							Smart card reader	None
Optical Storage	None M.2 Solid State Drive (SSD)							Media reader	None
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input Ambient Light Sensor (Windows 8.1 64-bit only)							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)
Multi-touch								Monitor Cable	<i>Some:</i> Mini DisplayPort to VGA Monitor Cable
Camera								WLAN ⁴	<i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card
Light sensor								WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
Graphics	Intel HD Graphics 4400 or 5000							SIM card (<i>optional</i>)	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider
Dimensions ³	<i>WQHD (WxDxH):</i> 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm <i>HD+ (WxDxH):</i> 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm <i>WQHD Touch (WxDxH):</i> 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Weight ²	<i>Models</i>	<i>WQHD</i>	<i>HD+</i>	<i>WQHD Touch</i>				Ethernet	Ethernet Extension cable
	<i>Weight</i>	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg				NFC	<i>Optional:</i> Near Field Communication
Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum							Security	Power-on / hard disk / supervisor password, security keyhole, reset switch
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery							Security chip	Trusted Platform Module, TCG 1.2-compliant
Max battery life ¹⁰	<i>Integrated battery:</i> up to 9 hr							vPro (<i>optional</i>)	Intel vPro Technology
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter							Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor
RapidCharge	<i>AC Adapter</i>	<i>45W</i>	<i>65W Slim</i>	<i>65W</i>				Preload	<i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
	<i>Charge to 80%</i>	1.0hr	50min	50min					<i>Win8.1 64:</i> Windows 8.1 64-bit
	<i>Charge to 100%</i>	2.3hr	2.1hr	2.1hr					<i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite

See footnotes for more detailed information

(MQ1-3) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A80032US	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	Yes	01/14
20A80033US	i5-4300U	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	Yes	01/14
20A80049US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004BUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004EUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8001FUS	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 64	3-depot	Yes	01/14
20A8001GUS	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 64	3-depot	Yes	01/14
20A8001NUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8001QUS	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 64	3-depot	Yes	01/14
20A8001SUS	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 64	3-depot	Yes	01/14
20A8002NUS	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 P64	3-depot	Yes	01/14
20A8002RUS	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 P64	3-depot	Yes	01/14
20A8002TUS	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	Yes	01/14
20A80037US	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	Yes	01/14
20A80045US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80048US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004AUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80083US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80086US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80089US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor						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 TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	None			
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None			
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None			
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None			
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets							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)		
Optical Storage	None M.2 Solid State Drive (SSD)							Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable		
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio							WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS								7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input							WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Graphics	Intel HD Graphics 4400 or 5000							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	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							Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Weight ²	Models	WQHD	HD+	WQHD Touch				Ethernet	Ethernet Extension cable		
	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg				NFC	Optional: Near Field Communication		
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum							Security	Power-on / hard disk / supervisor password, security keyhole, reset switch		
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery							Security chip	Trusted Platform Module, TCG 1.2-compliant		
Max battery life ¹⁰	Integrated battery: up to 9 hr							vPro (optional)	Intel vPro Technology		
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter							Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor		
RapidCharge	AC Adapter	45W	65W Slim	65W				Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
	Charge to 80%	1.0hr	50min	50min					Win8.1 64: Windows 8.1 64-bit		
	Charge to 100%	2.3hr	2.1hr	2.1hr					Win8.1 P64: Windows 8.1 Pro 64-bit		
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(MQ1-4) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Moni-tor cable	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20A8001DUS	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 64	3-onsite	Yes	01/14
20A8001EUS	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 64	3-onsite	Yes	01/14
20A8001HUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001KUS	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 64	3-onsite	Yes	01/14
20A8001VUS	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 64	3-onsite	Yes	01/14
20A8001WUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001XUS	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 64	3-onsite	Yes	01/14
20A80020US	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 64	3-onsite	Yes	01/14
20A8002DUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002EUS	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-onsite	Yes	01/14
20A8002QUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002SUS	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 P64	3-onsite	Yes	01/14
20A8002XUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004CUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004DUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8007YUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80082US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80084US	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A8002HUS	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-onsite	Yes	01/14
20A8002LUS	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 P64	3-onsite	Yes	01/14
20A8002YUS	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-onsite	Yes	01/14
20A80030US	i5-4300U	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-onsite	Yes	01/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 / i7 Processor						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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™				
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None			
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None			
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None			
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets							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)		
Optical Storage	None M.2 Solid State Drive (SSD)							Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable		
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio							WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS								7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input							WWAN (optional)	Upg: Wireless WAN upgradable		
	Ambient Light Sensor (Windows 8.1 64-bit only)								EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Graphics	Intel HD Graphics 4400 or 5000							SIM card (optional)	AT&T / Verizon: AT&T® / 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 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							Select:	User selectable, contract required with service provider		
Weight ²	Models	WQHD		HD+		WQHD Touch		Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
	Weight	2.82 lb / 1.28kg		2.96 lb / 1.34kg		3.15 lb / 1.43kg		Ethernet	Ethernet Extension cable		
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum							NFC	Optional: Near Field Communication		
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery							Security	Power-on / hard disk / supervisor password, security keyhole, reset switch		
Max battery life ¹⁰	Integrated battery: up to 9 hr							Security chip	Trusted Platform Module, TCG 1.2-compliant		
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter							vPro (optional)	Intel vPro Technology		
RapidCharge	AC Adapter	45W		65W Slim		65W		Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor		
	Charge to 80%	1.0hr		50min		50min		Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
	Charge to 100%	2.3hr		2.1hr		2.1hr			Win8.1 64: Windows 8.1 64-bit		
									Win8.1 P64: Windows 8.1 Pro 64-bit		
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(MQ1-5) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - Onsite - II

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)	Glob-al	Ann date (m/y)
20A80035US	i5-4300U	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 P64	3-onsite	Yes	01/14
20A80043US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80044US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004FUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8001JUS	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 64	3-onsite	Yes	01/14
20A8001LUS	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 64	3-onsite	Yes	01/14
20A8001MUS	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 64	3-onsite	Yes	01/14
20A8001UUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001YUS	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 64	3-onsite	Yes	01/14
20A8002JUS	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 P64	3-onsite	Yes	01/14
20A8002MUS	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-onsite	Yes	01/14
20A8002VUS	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 P64	3-onsite	Yes	01/14
20A80034US	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-onsite	Yes	01/14
20A80042US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80046US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004GUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80080US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80081US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80087US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor					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 TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	None		
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None		
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform		
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None		
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None		
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets						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)		
Optical Storage	None M.2 Solid State Drive (SSD)						Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable		
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio						WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS							7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card		
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits							7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card		
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS		
Graphics	Intel HD Graphics 4400 or 5000						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	WQHD (WxDxH):		13.03" x 8.92" x 0.70";		331.0mm x 226.5mm x 17.72mm		Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		
Weight ²	HD+ (WxDxH):		13.03" x 8.93" x 0.71";		331.0mm x 226.8mm x 18.16mm		Ethernet	Ethernet Extension cable		
	WQHD Touch (WxDxH):		13.03" x 8.94" x 0.73";		331.0mm x 227.1mm x 18.46mm		NFC	Optional: Near Field Communication		
Case material	Models		WQHD		HD+		WQHD Touch			
	Weight		2.82 lb / 1.28kg		2.96 lb / 1.34kg		3.15 lb / 1.43kg			
Battery type	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch		
Max battery life ¹⁰	Bottom: Magnesium/Aluminum						Security chip	Trusted Platform Module, TCG 1.2-compliant		
AC Adapter	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery						vPro (optional)	Intel vPro Technology		
RapidCharge	Integrated battery: up to 9 hr						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor		
	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter						Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
	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						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite		

See footnotes for more detailed information

(MQ1-6) © Lenovo



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

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i5 / i7 Processor								Media reader Ports	None Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector <i>Optional:</i> Mini DisplayPort to VGA Monitor Cable															
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Monitor cable																
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500	Camera	HD720p resolution, low light sensitive, fixed focus, gesture input															
	i5-5300U			2.3 GHz	2.9 GHz	3MB			Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
	i7-5500U			2.4 GHz	3 GHz	4MB			Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys															
i7-5600U	2.6 GHz			3.2 GHz	4MB	UltraNav™			TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch																
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								Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch															
Chipset	Intel SoC (System on Chip) platform								Security chip	Trusted Platform Module, TCG 1.2-compliant															
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures															
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle								vPro (<i>optional</i>)	Intel vPro Technology															
Multi-touch (<i>opt</i>)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor															
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA								Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery															
Optical	None								Max battery life ¹⁰	<table><tr><td>Models</td><td>FHD</td><td>WQHD</td><td>WQHD Touch</td></tr><tr><td>Battery life</td><td>10.9 hr</td><td>9.9 hr</td><td>9.9 hr</td></tr></table>				Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr				
Models	FHD	WQHD	WQHD Touch																						
Battery life	10.9 hr	9.9 hr	9.9 hr																						
Ethernet	Gigabit Ethernet via Ethernet extension cable								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>1.1hr</td><td>55min</td><td>55min</td></tr><tr><td>Charge to 100%</td><td>2.5hr</td><td>2.3hr</td><td>2.3hr</td></tr></table>				AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr
AC adapter	45W	65W Slim	65W																						
Charge to 80%	1.1hr	55min	55min																						
Charge to 100%	2.5hr	2.3hr	2.3hr																						
WLAN ⁴	<i>One of the following, configurable by model:</i> 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								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 - 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)															
WWAN (<i>optional</i>)	<i>One of the following, configurable by model:</i> - 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								Limited warranty ¹²	<i>One of the following, configurable by model:</i> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)															
SIM card (<i>opt</i>)	AT&T® or Verizon® LTE (4G), contract required with service provider								Mil-Spec test	MIL-STD-810G military certification															
Dimensions ³	<i>WQHD (WxDxH):</i> 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm <i>FHD (WxDxH):</i> 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm <i>WQHD Touch (WxDxH):</i> 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm								Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant															
Weight ²	<table><tr><td>Models</td><td>FHD</td><td>WQHD</td><td>WQHD Touch</td></tr><tr><td>Weight</td><td>2.996 lb / 1.359 kg</td><td>2.877 lb / 1.305 kg</td><td>3.175 lb / 1.44 kg</td></tr></table>								Models	FHD	WQHD	WQHD Touch	Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg									
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	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum																								

ThinkPad X1 Carbon (3rd Gen) 20BS (TS)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	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						Dimensions ³ Weight ² Case material	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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	FHD	WQHD	WQHD Touch
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg
	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						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys			
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None						vPro (optional)	Intel vPro Technology			
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
WLAN ⁴	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life ¹⁰	Models	FHD	WQHD	WQHD Touch
	7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card							Battery life	10.9 hr	9.9 hr	9.9 hr
	7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter		
WWAN (optional)	Upg: Wireless WAN upgradable						RapidCharge	AC adapter	45W	65W Slim	65W
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card							Charge to 80%	1.1hr	55min	55min
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card							Charge to 100%	2.5hr	2.3hr	2.3hr
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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			
Media reader	None						Win8.1 P64: Windows 8.1 64-bit Win10 P64: Windows 10 Pro 64				
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										
							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

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint 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						Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight ²	FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600			WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm			
	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						Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic, Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input				
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack				
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						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch				
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Ethernet	Gigabit Ethernet via Ethernet extension cable						vPro (optional)	Intel vPro Technology				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor				
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						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery				
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						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							
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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				
Media reader	None							Win8.1 64: Windows 8.1 64-bit				
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector							Win8.1 P64: Windows 8.1 Pro 64-bit				
								Win10 P64: Windows 10 Pro 64				
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						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

(MQ2-6) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BS (TS) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	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)
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						Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm			
	i5-5300U		2.3 GHz	2.9 GHz	3MB		Weight ²	Models	FHD	WQHD	WQHD Touch
	i7-5500U		2.4 GHz	3 GHz	4MB			Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg
	i7-5600U		2.6 GHz	3.2 GHz	4MB			Case material	Display cover:	Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic, Magnesium/Aluminum	
Graphics	Intel HD Graphics 5500						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys			
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None						vPro (optional)	Intel vPro Technology			
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
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						Max battery life ¹⁰	Models	FHD	WQHD	WQHD Touch
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						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			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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		
Media reader	None Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector Optional: Mini DisplayPort to VGA Monitor Cable						Win8.1 64:	Windows 8.1 64-bit			
Ports							Win8.1 P64:	Windows 8.1 Pro 64-bit			
Monitor cable							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

(MQ2-2) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BS (TS) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	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						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					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	Models		FHD	WQHD	WQHD Touch	
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Weight		2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg	
	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						Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum					
Chipset	Intel SoC (System on Chip) platform						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input					
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack					
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						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch					
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch					
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant					
Ethernet	Gigabit Ethernet via Ethernet extension cable						vPro (optional)	Intel vPro Technology					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor					
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						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery					
WWAN (optional)	Upg: Wireless WAN upgradable						Max battery life ¹⁰	Models		FHD	WQHD	WQHD Touch	
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card							Battery life		10.9 hr	9.9 hr	9.9 hr	
	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						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter					
Media reader	None						RapidCharge	AC adapter		45W	65W Slim	65W	
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector							Charge to 80%		1.1hr	55min	55min	
								Charge to 100%		2.5hr	2.3hr	2.3hr	
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						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

(MQ2-7) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT

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)
20BT005UUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upd	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						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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	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			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
	i5-5300U		2.3 GHz	2.9 GHz	3MB		Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
	i7-5500U		2.4 GHz	3 GHz	4MB		Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
	i7-5600U		2.6 GHz	3.2 GHz	4MB		Keyboard UltraNav™	6-row, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Graphics	Intel HD Graphics 5500						Security Security chip	Power-on / hard disk / supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant			
Chipset	Intel SoC (System on Chip) platform						vPro (optional)	Intel vPro Technology			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor			
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						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Max battery life ¹⁰	Models FHD WQHD WQHD Touch Battery life 10.9 hr 9.9 hr 9.9 hr			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Optical	None						RapidCharge	AC adapter 45W 65W Slim 65W Charge to 80% 1.1hr 55min 55min Charge to 100% 2.5hr 2.3hr 2.3hr			
Ethernet	Gigabit Ethernet via Ethernet extension cable						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			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Limited warranty ¹²	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, O/D (MQ2-5) © Lenovo			
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										

See footnotes for more detailed information

ThinkPad X1 Carbon (3rd Gen) 20BT (Win8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	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)
20BT000AUS	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 P64	3-depot	Yes	01/15
20BT000FUS	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 P64	3-depot	Yes	01/15
20BT000HUS	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 P64	3-depot	Yes	01/15
20BT000QUS	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 P64	3-depot	No	01/15
20BT000UUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT000WUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0017US	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
20BT0019US	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 P64	3-depot	No	01/15
20BT003EUS	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
20BT003JUS	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
20BT000CUS	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 P64	3-depot	Yes	01/15
20BT000GUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000KUS	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
20BT000XUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0011US	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 P64	3-depot	No	01/15
20BT0012US	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 P64	3-depot	No	01/15
20BT0014US	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 P64	3-depot	No	01/15
20BT0016US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT003MUS	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	Yes	01/15
20BT003QUS	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

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³ Weight ² Case material	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			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	FHD	WQHD	WQHD Touch
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg
	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						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys			
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						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None						vPro (optional)	Intel vPro Technology			
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
WLAN ⁴	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life ¹⁰	Models	FHD	WQHD	WQHD Touch
	7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card							Battery life	10.9 hr	9.9 hr	9.9 hr
WWAN (optional)	7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
	Upg: Wireless WAN upgradable							AC adapter	45W	65W Slim	65W
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						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			
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card							Win8.1 64: Windows 8.1 64-bit			
Media reader	None						Ports	Win8.1 P64: Windows 8.1 Pro 64-bit			
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable							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

(MQ2-3) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT (Onsite) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BT000JUS	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 P64	3-onsite	Yes	01/15
20BT003XUS	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 P64	3-onsite	Yes	01/15
20BT000LUS	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-onsite	No	01/15
20BT000MUS	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 P64	3-onsite	No	01/15
20BT000NUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000PUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000SUS	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 P64	3-onsite	No	01/15
20BT0010US	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-onsite	No	01/15
20BT0018US	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-onsite	No	01/15
20BT003VUS	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 P64	3-onsite	Yes	01/15
20BT000BUS	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-onsite	Yes	01/15
20BT000DUS	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 P64	3-onsite	Yes	01/15
20BT000EUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000RUS	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-onsite	No	01/15
20BT000TUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000VUS	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 P64	3-onsite	No	01/15
20BT000YUS	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-onsite	No	01/15
20BT0013US	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 P64	3-onsite	No	01/15
20BT0015US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT003WUS	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 P64	3-onsite	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						Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm			
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm			
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Models	FHD	WQHD	WQHD Touch
	i7-5500U		2.4 GHz	3 GHz	4MB			Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB							
Graphics	Intel HD Graphics 5500						Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic, Bottom: Magnesium/Aluminum			
Chipset	Intel SoC (System on Chip) platform						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
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						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Gigabit Ethernet via Ethernet extension cable						vPro (optional)	Intel vPro Technology			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor			
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						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
WWAN (optional)	Upg: Wireless WAN upgradable						Max battery life ¹⁰	Models	FHD	WQHD	WQHD Touch
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card							Battery life	10.9 hr	9.9 hr	9.9 hr
	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						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Media reader	None						RapidCharge	AC adapter	45W	65W Slim	65W
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector							Charge to 80%	1.1hr	55min	55min
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable							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

(MQ2-4) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	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)
20BT007YUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	07/15
20BT0081US	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	Win10 P64	3-onsite	Yes	07/15
20BT0080US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	07/15
20BT0087US	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-onsite	Yes	09/15
20BT0085US	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-onsite	Yes	09/15
20BT0086US	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-onsite	Yes	09/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm				
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600		WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm				
	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						Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum				
Chipset	Intel SoC (System on Chip) platform							Camera	HD720p resolution, low light sensitive, fixed focus, gesture input			
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Audio support		HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
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							Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						UltraNav™		TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch			
Storage	M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA							Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Optical	None						Security chip		Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Gigabit Ethernet via Ethernet extension cable							vPro (optional)	Intel vPro Technology			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader		Fingerprint reader on the keyboard bezel, swipe sensor			
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							Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery			
WWAN (optional)	Upg: Wireless WAN upgradable						Max battery life ¹⁰					
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card							Models FHD WQHD WQHD Touch				
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card							Battery life 10.9 hr 9.9 hr 9.9 hr				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
Media reader	None							RapidCharge	AC adapter 45W 65W Slim 65W			
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector								Charge to 80% 1.1hr 55min 55min			
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						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

(MQ2-8) © Lenovo

ThinkPad X1 Carbon (4th Gen)

Product Specifications Reference (PSREF)



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
Product Specifications Reference (PSREF)

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Media reader Ports	MicroSD card reader, supports UHS-II microSD card															
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	WiGig dock (opt)	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector															
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD graphics 520	Adapter (optional)	WiGig dock, mutually exclusive with WWAN															
	i5-6300U			2.4 GHz	3.0 GHz	3MB			HDMI-VGA: Lenovo HDMI to VGA Monitor Cable																
	i7-6500U			2.5 GHz	3.1 GHz	4MB			mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable																
	i7-6600U			2.6 GHz	3.4 GHz	4MB			RJ45: ThinkPad OneLink+ to RJ45 adapter																
									VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter																
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								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															
Chipset	Intel SoC (System on Chip) platform								Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch															
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 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								Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch															
Multi-touch	None								Security chip	Trusted Platform Module, TCG 1.2-compliant															
Hinge	Normal hinge, 180 degree								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures															
Storage	<i>Some:</i> M.2 SSD / SATA 6.0Gb/s <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s								vPro (optional)	Intel vPro Technology															
Optical	None								Fingerprint reader	Touch style fingerprint reader on the palm rest															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))								Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery															
WLAN ⁴	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN):</i> • 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								Max battery life ¹⁰	MobileMark® 2014: 11 hr															
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i> • 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)								RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				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
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																						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		Windows 10 Pro 64													
Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm									• Lenovo Solution Center		• Lenovo Companion													
Weight ²	from 2.579 lb / 1.17 kg									• Lenovo Solution Center		• Lenovo Setting													
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium									• ThinkVantage Product Recovery		• Microsoft Office preloaded; purchase a product key to activate													
										• Rescue and Recovery™		• McAfee® LiveSafe™ (30-day trial)													
										• ThinkVantage System Update															
										• Adobe® Reader®															
										• Microsoft® Office preloaded; purchase a product key to activate															
										• McAfee® LiveSafe™ (30-day trial)															
									Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 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)

Product Specifications Reference (PSREF)

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						Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm															
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 2.579 lb / 1.17 kg															
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic; <i>Bottom:</i> Super magnesium															
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader Ports WiGig dock (<i>opt</i>) Adapter (<i>optional</i>)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN 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															
	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						Camera	HD720p resolution, low light sensitive, fixed focus															
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch															
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						Security chip	Trusted Platform Module, TCG 1.2-compliant															
Multi-touch	None						vPro (<i>optional</i>)	Intel vPro Technology															
Hinge	Normal hinge, 180 degree						Fingerprint reader	Touch style fingerprint reader on the palm rest															
Storage	<i>Some:</i> M.2 SSD / SATA 6.0Gb/s <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery															
Optical	None						Max battery life ¹⁰	MobileMark® 2014: 11 hr															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC 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						RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				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
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																				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Preload	<i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64															
WWAN (<i>optional</i>)	<i>Upg:</i> Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-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)						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															
SIM card (<i>opt</i>)	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																						

See footnotes for more detailed information

(RV1-1) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TS) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	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						Dimensions ³ Weight ² Case material	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium															
	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						Media reader	MicroSD card reader, supports UHS-II microSD card															
Chipset	Intel SoC (System on Chip) platform						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN															
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						Adapter (optional)	HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable															
Multi-touch	None						RJ45:	ThinkPad OneLink+ to RJ45 adapter															
Hinge	Normal hinge, 180 degree						VGA/RJ45:	ThinkPad OneLink+ to VGA/RJ45 adapter															
Storage	Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Camera	HD720p resolution, low light sensitive, fixed focus															
Optical	None						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch															
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						Security chip	Trusted Platform Module, TCG 1.2-compliant															
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology															
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)						Fingerprint reader	Touch style fingerprint reader on the palm rest															
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery															
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight						Max battery life ¹⁰	MobileMark® 2014: 11 hr															
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
							RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				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
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

(RV1-2) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TS) - Win10

Product Specifications Reference (PSREF)

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						Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 2.579 lb / 1.17 kg			
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium			
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader Ports WiGig dock (opt) Adapter (optional)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN 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			
	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						Camera	HD720p resolution, low light sensitive, fixed focus			
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
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						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Multi-touch	None						vPro (optional)	Intel vPro Technology			
Hinge	Normal hinge, 180 degree						Fingerprint reader	Touch style fingerprint reader on the palm rest			
Storage	Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery			
Optical	None						Max battery life ¹⁰	MobileMark® 2014: 11 hr			
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC 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						RapidCharge	AC adapter			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							45W			
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)							Charge to 80%			
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card							Charge to 100%			
SIM card (opt)	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						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			
UltraNav™											

See footnotes for more detailed information

(RV1-3) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TS) - Win10 - II

Product Specifications Reference (PSREF)

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)
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						Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 2.579 lb / 1.17 kg			
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic;			
	i5-6300U		2.4 GHz	3.0 GHz	3MB		<i>Bottom:</i> Super magnesium				
	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						Media reader	MicroSD card reader, supports UHS-II microSD card			
Chipset	Intel SoC (System on Chip) platform						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector			
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN			
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Adapter (optional)	HDMI-VGA: Lenovo HDMI to VGA Monitor Cable			
	Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS							mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable			
Multi-touch	None						RJ45: ThinkPad OneLink+ to RJ45 adapter				
Hinge	Normal hinge, 180 degree						VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter				
Storage	Some: M.2 SSD / SATA 6.0Gb/s						Camera	HD720p resolution, low light sensitive, fixed focus			
Optical	Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
	None										
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
WLAN ⁴	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						vPro (optional)	Intel vPro Technology			
	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Touch style fingerprint reader on the palm rest			
WWAN (optional)	Upg: Wireless WAN upgradable						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery			
	EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						Max battery life ¹⁰	MobileMark® 2014: 11 hr			
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						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
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight							Win10 P64:	Windows 10 Pro 64		
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						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 - III

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	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						Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm															
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight ²	from 2.579 lb / 1.17 kg															
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium															
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	MicroSD card reader, supports UHS-II microSD card															
	i7-6500U		2.5 GHz	3.1 GHz	4MB		Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector															
	i7-6600U		2.6 GHz	3.4 GHz	4MB		WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN															
Graphics	Intel HD Graphics 520 in processor						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															
Chipset	Intel SoC (System on Chip) platform						Camera	HD720p resolution, low light sensitive, fixed focus															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
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						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch															
Multi-touch	None						Security chip	Trusted Platform Module, TCG 1.2-compliant															
Hinge	Normal hinge, 180 degree						vPro (optional)	Intel vPro Technology															
Storage	Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s						Fingerprint reader	Touch style fingerprint reader on the palm rest															
Optical	None						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						Max battery life ¹⁰	MobileMark® 2014: 11 hr															
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						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				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
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																				
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)						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64															
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						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															
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight																						
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch																						

See footnotes for more detailed information

(RV1-5) © Lenovo



Lenovo® ThinkPad E450



Lenovo ThinkPad E450



Lenovo ThinkPad E450

ThinkPad E450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Monitor cable	None
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400		Camera	<i>Some:</i> 0.3-megapixel, fixed focus <i>Some:</i> HD720p resolution, fixed focus
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500		Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500		Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB	HD5500		Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM</i> : Trusted Platform Module, TCG 1.2-compliant <i>Soft</i> : Software TPM enabled None		
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								vPro Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None	
Chipset	Intel SoC (System on Chip) platform								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • 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) <i>Some:</i> Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™	
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	<i>Some:</i> supports 10-finger gesture										
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory										
Optical M.2 SSD	None None								<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> 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)		
Ethernet Bluetooth™	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								<i>Some:</i> 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)		
WLAN	<i>One of the following, configurable by model:</i> • 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 ExpressCard	None None										
Dimensions	<i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm										
Weight	<i>6-cell None Touch:</i> from 4.00 lb (1.81kg)										
Case color	Graphite Black										
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										
Limited warranty									1-year - depot repair service / service upgrades available		
Environment									EPEAT™ Gold; ENERGY STAR®; RoHS-compliant		

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								Dimensions	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 4.00 lb (1.81kg)	
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400	Case color	Graphite Black	
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Graphics	Intel HD Graphics in processor only, or digital monitor support via HDMI™ (supporting HDCP to output protected content)								Ports	Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Monitor cable	None	
Memory									Camera	HD720p resolution, fixed focus	
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								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Multi-touch	Some: supports 10-finger gesture								Keyboard	6-row, spill-resistant, multimedia Fn keys	
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								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
Optical									Security	Power-on password, hard disk password, supervisor password, security keyhole	
M.2 SSD	None								Security chip	Some: Trusted Platform Module, TCG 1.2-compliant	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								vPro	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
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								NFC	None	
WWAN	None								Battery type	Li-Ion 6-cell (47Wh)	
SIM card	None								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	
									Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

See footnotes for more detailed information

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								Dimensions Weight Case color Case material	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm 6-cell None Touch: from 4.00 lb (1.81kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	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)								Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Ports	Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
Memory									None		
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								Monitor cable	None	
Multi-touch	Some: supports 10-finger gesture								Camera	HD720p resolution, fixed focus	
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								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Optical	None None								Keyboard	6-row, spill-resistant, multimedia Fn keys	
M.2 SSD									None		
Ethernet	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
Bluetooth™									None		
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								ThinkLight™	None	
WWAN	None								Security	Power-on password, hard disk password, supervisor password, security keyhole	
SIM card	None								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	
									Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

See footnotes for more detailed information

ThinkPad E450 20DC (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)
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								Dimensions Weight Case color Case material	<i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm <i>6-cell None Touch:</i> from 4.00 lb (1.81kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	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)								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Monitor cable	None	
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								Camera	HD720p resolution, fixed focus	
	Some: supports 10-finger gesture								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Multi-touch									Keyboard	6-row, spill-resistant, multimedia Fn keys	
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								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
									ThinkLight™	None	
Optical	None								Security	Power-on password, hard disk password, supervisor password, security keyhole	
M.2 SSD	None								Security chip	None	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								vPro	None	
	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
Bluetooth™									NFC	None	
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								Battery type	Li-Ion 6-cell (47Wh)	
WWAN	None								Battery life	6-cell (47Wh): up to 9.0 hr	
									AC adapter	65-watt AC adapter (Discrete Graphics)	
SIM card	None								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in 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

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								Dimensions	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 4.00 lb (1.81kg)	
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400	Case color	Graphite Black	
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Graphics	Intel HD Graphics in processor only, or digital monitor support via HDMI™ (supporting HDCP to output protected content)								Ports	Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Monitor cable	None	
Memory									Camera	Some: 0.3-megapixel, fixed focus Some: HD720p resolution, fixed focus	
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								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Multi-touch	Some: supports 10-finger gesture								Keyboard	6-row, spill-resistant, multimedia Fn keys	
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								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
Optical									ThinkLight™	None	
M.2 SSD	None								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								Security chip	TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								vPro	None	
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								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
WWAN									NFC	None	
SIM card	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

ThinkPad E450 20DC (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)
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								Dimensions	<i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm <i>6-cell None Touch:</i> from 4.00 lb (1.81kg) Case color Graphite Black Case material PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	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)								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
Chipset	Intel SoC (System on Chip) platform								Monitor cable	None	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	HD720p resolution, fixed focus	
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
	Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								Keyboard	6-row, spill-resistant, multimedia Fn keys	
Multi-touch	Some: supports 10-finger gesture								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
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								ThinkLight™	None	
Optical	None								Security	Power-on password, hard disk password, supervisor password, security keyhole	
M.2 SSD	None								Security chip	TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								vPro	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
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								NFC	None	
WWAN	None								Battery type	Li-Ion 6-cell (47Wh)	
SIM card	None								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



Lenovo® ThinkPad E455



Lenovo ThinkPad E455



Lenovo ThinkPad E455

ThinkPad E455 Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD Accelerated Processor A6, A8, or A10 APU								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack	
	A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD		None	
	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)		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		
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								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset Memory	AMD A76M FCH Chipset 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Security Security chip vPro Fingerprint reader NFC	Power-on password, hard disk password, supervisor password, security keyhole None None None	
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								Battery type Battery life AC adapter	Li-Ion 6-cell (47Wh) Up to 6.5 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
Multi-touch	None								Preload	<i>Some:</i> No operating system <i>Some:</i> 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) <i>Some:</i> Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ <i>Some:</i> Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions)	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory										
Optical M.2 SSD	None None										
Ethernet Bluetooth™	Realtek® RTL8111GUS Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
WLAN	<i>One of the following, configurable by model:</i> • 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 ExpressCard	None None										
Dimensions Weight Case color Case material	<i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) From 4.00 lb (1.81kg) Graphite black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Limited warranty Environment	1-year - depot repair service / service upgrades available EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

See footnotes for more detailed information

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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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack None
	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								Monitor cable	None
Chipset	AMD A76M FCH Chipset								Camera	HD720p resolution, fixed focus
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Display	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio								Keyboard	6-row, spill-resistant, multimedia Fn keys
Multi-touch	None								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory								ThinkLight™	None
Optical	None								Security	Power-on password, hard disk password, supervisor password, security keyhole
M.2 SSD	None								Security chip	None
Ethernet	Realtek® RTL8111GUS Gigabit Ethernet Connection								vPro	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	None
WLAN	<i>One of the following, configurable by model:</i> • 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								NFC	None
Dimensions	<i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)								Battery type	Li-Ion 6-cell (47Wh)
Weight	From 4.00 lb (1.81kg)								Battery life	Up to 6.5 hr
Case color	Graphite black								AC adapter	45-watt AC adapter (Integrated Graphics)
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
									Limited warranty	1-year - depot repair service / service upgrades available
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack None	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		Monitor cable	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
	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								Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Environment	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset	AMD A76M FCH Chipset									Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									None	
Display	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio									None	
Multi-touch	None									None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory									Li-Ion 6-cell (47Wh) Up to 6.5 hr 65-watt AC adapter (Discrete Graphics)	
Optical	None									<i>Some:</i> No operating system	
M.2 SSD	None									<i>Some:</i> Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Ethernet	Realtek® RTL8111GUS Gigabit Ethernet Connection									<i>Some:</i> Windows 8.1 64-bit	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									<i>Some:</i> Windows 8.1 Pro 64-bit	
WLAN	<i>One of the following, configurable by model:</i> • 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								preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Dimensions	<i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm)								1-year - depot repair service / service upgrades available		
Weight	From 4.00 lb (1.81kg)								EPEAT™ Gold; ENERGY STAR®; RoHS-compliant		
Case color	Graphite black										
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										

See footnotes for more detailed information

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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack None	
	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								Camera	HD720p resolution, fixed focus	
Chipset	AMD A76M FCH Chipset								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys	
Display	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
Multi-touch	None								ThinkLight™	None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Optical	None								Security chip	None	
M.2 SSD	None								vPro	None	
Ethernet	Realtek® RTL8111GUS Gigabit Ethernet Connection								Fingerprint reader	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								NFC	None	
WLAN	<i>One of the following, configurable by model:</i> • 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								Battery type	Li-Ion 6-cell (47Wh)	
Dimensions	<i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) From 4.00 lb (1.81kg) Graphite black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Battery life	Up to 6.5 hr	
Weight									AC adapter	45-watt AC adapter (Integrated Graphics)	
Case color									Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	<i>Some:</i> Windows 10 Pro 64
Case material									Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack None		
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		Monitor cable	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
	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								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None		
Chipset Memory	AMD A76M FCH Chipset 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									Security Security chip vPro Fingerprint reader NFC		
Display	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio									Power-on password, hard disk password, supervisor password, security keyhole None None None None		
Multi-touch	None									Battery type Battery life AC adapter		
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory								Preload			
Optical M.2 SSD	None None								<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64			
Ethernet Bluetooth™	Realtek® RTL8111GUS Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty			
WLAN	<i>One of the following, configurable by model:</i> • 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								Environment			
Dimensions Weight Case color Case material	<i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) From 4.00 lb (1.81kg) Graphite black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic											

See footnotes for more detailed information



Lenovo® ThinkPad E460



Lenovo ThinkPad E460



Lenovo ThinkPad E460

ThinkPad E460 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None <i>Some:</i> HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (47Wh) 6-cell (47Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> 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) 1-year - depot repair service / service upgrades available None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	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 Memory	Intel SoC (System on Chip) platform 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	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory									
Optical M.2 SSD	None None									
Ethernet Bluetooth™	Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • 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	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 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	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

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								Smart Card Reader	None
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	ExpressCard	None
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-6200U			2.3 GHz	2.8 GHz	3MB			Ports	Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack
Graphics	Intel HD Graphics in processor only, digital monitor support via HDMI™ (supporting HDCP to output protected content)								Monitor cable	None
Chipset	Intel SoC (System on Chip) platform								Camera	Some: HD720p resolution, fixed focus
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Audio support	HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
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								Keyboard	6-row, spill-resistant, multimedia Fn keys
Multi-touch	None								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
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								ThinkLight™	None
Ethernet	Gigabit Ethernet Connection								Security chip	Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware)
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									TPM1.2: Trusted Platform Module, TCG 1.2-compliant
WWAN	None									TPM : TPM2.0 and TPM1.2
SIM card	None								vPro	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 From 4.23 lb (1.92kg)								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor
Weight									NFC	None
Case color	Graphite black								Battery type	Li-Ion 6-cell (47Wh)
Case material	Aluminum: Aluminum display cover PC/ABS: PC/ABS plastic display cover								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

ThinkPad E460 20ET (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)	
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								Smart Card Reader	None
	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)								Monitor cable	None
Chipset	Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	<i>Some:</i> HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Memory									Audio support	
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								Keyboard	6-row, spill-resistant, multimedia Fn keys
Multi-touch									None	UltraNav™
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								ThinkLight™	None
Ethernet									Security	Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter								Security chip	<i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2
WLAN									vPro	None
WWAN	<i>One of the following, configurable by model:</i> - 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								Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor
SIM card									None	NFC
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm From 4.23 lb (1.92kg)								Battery type	Li-Ion 6-cell (47Wh)
Weight									Battery life	6-cell (47Wh): up to 9.0 hr
Case color	Graphite black								AC adapter	<i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)
Case material									<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PC/ABS plastic display cover	
									Mil-Spec test	None
									Environment	PEAT™ Gold; ENERGY STAR®; RoHS-compliant



Lenovo® ThinkPad E465



Lenovo ThinkPad E465



Lenovo ThinkPad E465

ThinkPad E465 Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD Accelerated Processor A6, A8, or A10 APU								Smart Card Reader	None	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics	ExpressCard	None	
	A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics	Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack	
	A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB		R5 M330	Monitor cable	None	
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)	Camera	HD720p resolution, fixed focus	
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB	R6 M340DX (R6+R5 M330)		Audio support	HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack		
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								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset	AMD SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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	
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								vPro	None	
Multi-touch	None								Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor	
									NFC	None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								Battery type	Li-Ion 6-cell (47Wh)	
Optical	None								Battery life	Up to 6.5 hr	
M.2 SSD	None								AC adapter	<i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
Ethernet	Gigabit Ethernet Connection								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> 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)	
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									<i>Some:</i> Windows 10 Pro 64 <i>Some:</i> 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)	
WLAN	<i>One of the following, configurable by model:</i> • 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								Limited warranty	1-year - depot repair service / service upgrades available	
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
SIM card	None										
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 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	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover										

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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None	
	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)								Camera Audio support	HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Chipset Memory	AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2	
Multi-touch	None								vPro Fingerprint reader NFC	None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								Battery type Battery life AC adapter	Li-Ion 6-cell (47Wh) Up to 6.5 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
Optical	None								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64	
Ethernet Bluetooth™	Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty	1-year - depot repair service / service upgrades available	
WLAN	<i>One of the following, configurable by model:</i> • 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								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
WWAN	None										
SIM card	None										
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 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	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PC/ABS plastic display cover										

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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack	
	A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M330		Monitor cable	
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)		Camera Audio support	
A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB	R6 M340DX (R6+R5 M330)		HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack			
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)								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset	AMD SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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	
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								vPro	None	
Multi-touch	None								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
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								NFC	None	
Optical	None								Battery type	Li-Ion 6-cell (47Wh)	
Ethernet	Gigabit Ethernet Connection								Battery life	Up to 6.5 hr	
Bluetooth™	Bluetooth wireless, Integrated in Wi-Fi + Bluetooth combo adapter								AC adapter	Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)	
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								Preload	Some: No operating system Some: Windows® 7 Professional 64 Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	
WWAN	None									Some: Windows 10 Pro 64 Some: Windows 10 Home 64	
SIM card	None								Limited warranty	1-year - depot repair service / service upgrades available	
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								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
Weight	From 4.27 lb (1.94kg)										
Case color	Graphite black										
Case material	Aluminum: Aluminum display cover PC/ABS: PC/ABS plastic display cover										



Lenovo® ThinkPad E550



Lenovo ThinkPad E550



Lenovo ThinkPad E550

ThinkPad E550 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector None	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		DDR3L-1600	
	i3-4005U	2	4	1.7 GHz	-	3MB		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								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
									ThinkLight™	None	
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								Security	Power-on password, hard disk password, supervisor password, security keyhole	
									Security chip	Some: Trusted Platform Module, TCG 1.2-compliant	
Multi-touch	Some: supports 10-finger gesture								vPro	None	
									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
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™								NFC	None	
									Battery type	Li-Ion 6-cell (48Wh)	
Optical	Some: Hybrid drive with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel								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)	
M.2 SSD	None								Preload	Some: No operating system	
Ethernet	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Bluetooth™										Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit	
WLAN										• Lenovo Solution Center	
										• Lenovo SHAREit	
										• Lenovo Companion	
										• ThinkVantage System Update	
WWAN	None								• Evernote		
SIM card	None								• Maxthon Cloud Browser		
									• Norton Studio		
Smart Card Read ExpressCard	None								• Microsoft Office preloaded; purchase a product key to activate		
									• Microsoft Office preloaded; purchase a product key to activate		
Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm								• Norton Internet Security (30 days of virus definitions)		
									Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64		
Weight	6-cell None Touch: from 5.21 lb (2.35kg)								Some: Windows 10 Pro 64		
Case color	Graphite Black								Some: Windows 10 Home 64		
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								• Lenovo Solution Center		
									• Lenovo SHAREit		
									• 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										

ThinkPad E550 20DF (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)
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	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
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								Dimensions Weight Case color Case material	<i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	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)								Monitor cable	None	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	HD720p resolution, fixed focus	
Memory									Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Display									Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
									UltraNav™ ThinkLight™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Multi-touch	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 <i>Some:</i> supports 10-finger gesture	Security	Power-on password, hard disk password, supervisor password, security keyhole								
		Security chip	<i>Some:</i> Trusted Platform Module, TCG 1.2-compliant								
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™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory	vPro	None								
		Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor								
Optical	DVD burner, 9.0mm high, removable	NFC	None								
		Battery type	Li-Ion 6-cell (48Wh)								
M.2 SSD	None	Battery life	6-cell (48Wh): up to 9.0 hr								
		AC adapter	45-watt AC adapter (Integrated Graphics)								
Ethernet	Intel WGI218V Gigabit Ethernet Connection	Preload	<i>Some:</i> No operating system		<i>Some:</i> Windows 8.1 64-bit						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter		<i>Some:</i> Windows® 7 Professional 64		<i>Some:</i> Windows 8.1 Pro 64-bit						
WLAN	<i>One of the following, configurable by model:</i> • 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	Limited warranty	1-year - depot repair service / service upgrades available								
WWAN	None	Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant								
SIM card	None										

See footnotes for more detailed information

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								Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 5.21 lb (2.35kg)	
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L -1600	HD4400	Case color	Graphite Black	
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500	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	
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)								Monitor cable	None	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	HD720p resolution, fixed focus	
Memory									Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
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								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Multi-touch	Some: supports 10-finger gesture								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
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								ThinkLight™	None	
Optical	DVD burner, 9.0mm high, removable								Security	Power-on password, hard disk password, supervisor password, security keyhole	
M.2 SSD									Security chip	Some: Trusted Platform Module, TCG 1.2-compliant	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								vPro	None	
Bluetooth™									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
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								NFC	None	
WWAN	None								Battery type	Li-Ion 6-cell (48Wh)	
SIM card	None								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	
									Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

See footnotes for more detailed information

ThinkPad E550 20DF (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)
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								Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 5.21 lb (2.35kg)		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500	Case color	Graphite Black		
	i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
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)								Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Ports	Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector		
Memory									Monitor cable	None		
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								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		
Multi-touch	Some: supports 10-finger gesture								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
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								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad		
									ThinkLight™	None		
Optical	DVD burner, 9.0mm high, removable None								Security	Power-on password, hard disk password, supervisor password, security keyhole		
									Security chip	None		
Ethernet	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								vPro	None		
									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor		
Bluetooth™									NFC	None		
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								Battery type	Li-Ion 6-cell (48Wh)		
									Battery life	6-cell (48Wh): up to 9.0 hr		
WWAN	None								AC adapter	65-watt AC adapter (Discrete Graphics)		
SIM card	None								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in 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

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								Dimensions Weight Case color Case material	<i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
	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)								Monitor cable	None
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	<i>Some:</i> 0.3-megapixel, fixed focus <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC
Memory									Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
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								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
Multi-touch	<i>Some:</i> supports 10-finger gesture								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM</i> : Trusted Platform Module, TCG 1.2-compliant <i>Soft</i> : Software TPM enabled
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory								vPro Fingerprint reader NFC	None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None
Optical M.2 SSD	DVD burner, 9.0mm high, removable None								Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr 45-watt AC adapter (Integrated Graphics)
Ethernet Bluetooth™	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Some:</i> Windows 10 Pro 64
WLAN	<i>One of the following, configurable by model:</i> • 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								Limited warranty	1-year - depot repair service / service upgrades available
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
SIM card	None									

See footnotes for more detailed information

ThinkPad E550 20DF (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)
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								Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500	Case color	Graphite Black	
	i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
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)								Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Ports	Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector	
Memory									Monitor cable	None	
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								Camera	Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC	
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								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Optical									DVD burner, 9.0mm high, removable		
M.2 SSD	None										
Ethernet	Intel WGI218V Gigabit Ethernet Connection								Security	Power-on password, hard disk password, supervisor password, security keyhole	
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								vPro	None	
WWAN									None		
SIM card	None								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 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



Lenovo® ThinkPad E555



Lenovo ThinkPad E555



Lenovo ThinkPad E555

ThinkPad E555 Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD Accelerated Processor A6, A8, A10, or FX APU								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		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	
	A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD		None	
	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								Camera	HD720p resolution, fixed focus	
Chipset	AMD A76M FCH Chipset								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
	<i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								ThinkLight™	None	
Multi-touch	None								Security chip	Power-on password, hard disk password, supervisor password, security keyhole	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable								vPro	None	
	<i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								Fingerprint reader	None	
	<i>Some:</i> Hybrid drive with 8GB NAND flash memory								NFC	None	
Optical	<i>Some:</i> DVD burner, 9.0mm high, fixed								Battery type	Li-Ion 6-cell (48Wh)	
M.2 SSD	<i>Some:</i> Blank Bezel								Battery life	Up to 6.3 hr	
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection								AC adapter	<i>Some:</i> 45-watt AC adapter (Integrated Graphics)	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									<i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
WLAN	<i>One of the following, configurable by model:</i> • 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								Preload	<i>Some:</i> No operating system	
WWAN	None									<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
SIM card	None									<i>Some:</i> Windows 8.1 Pro 64-bit	
Smart Card Read	None									• 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)	
ExpressCard	None									• 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)	
Dimensions	<i>All (WxDxH):</i> 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)									<i>Some:</i> Windows 10 Pro 64	
Weight	From 5.20 lb (2.36kg)									<i>Some:</i> Windows 10 Home 64	
Case color	Graphite black									• Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions)	
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										
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								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)			
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		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			
	A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R4 HD		None			
	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										Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets											UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits										ThinkLight™	None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory										Security	Power-on password, hard disk password, supervisor password, security keyhole	
Optical	<i>Some:</i> DVD burner, 9.0mm high, fixed <i>Some:</i> Blank Bezel										Security chip	None	
M.2 SSD	None										vPro	None	
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection										Fingerprint reader	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										NFC	None	
WLAN	RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card										Battery type	Li-Ion 6-cell (48Wh)	
WWAN	None										Battery life	Up to 6.3 hr	
SIM card	None										AC adapter	45-watt AC adapter (Integrated Graphics)	
Dimensions	<i>All (WxDxH):</i> 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)										Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Weight	From 5.20 lb (2.36kg)										Limited warranty	1-year - depot repair service / service upgrades available	
Case color	Graphite black										Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic												

See footnotes for more detailed information

ThinkPad E555 20DH (AMD) - Discrete (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)
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								Dimensions	All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)	
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics	Weight	From 5.20 lb (2.36kg)	
	A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M240	Case color	Graphite black	
	A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
FX-7500	4	4	2.1 GHz	3.3 GHz	4MB	R7 M265DX (R7+R5 M240)		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	
Graphics	AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 and FX APU								Camera	HD720p resolution, fixed focus	
Chipset	AMD A76M FCH Chipset								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
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								ThinkLight™	None	
Optical	Some: DVD burner, 9.0mm high, fixed Some: Blank Bezel								Security	Power-on password, hard disk password, supervisor password, security keyhole	
M.2 SSD	None								Security chip	None	
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection								vPro	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	None	
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								NFC	None	
WWAN	None								Battery type	Li-Ion 6-cell (48Wh)	
SIM card	None								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	
									Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

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								Multicard Reader Ports	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
	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								Monitor cable	None
Chipset	AMD A76M FCH Chipset 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Camera	HD720p resolution, fixed focus
Memory									Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
Optical									<i>Some:</i> DVD burner, 9.0mm high, fixed <i>Some:</i> Blank Bezel	ThinkLight™
M.2 SSD	None								Security	Power-on password, hard disk password, supervisor password, security keyhole
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection								Security chip	None
Bluetooth™									Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	vPro
WLAN	RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card								Fingerprint reader	None
WWAN	None								NFC	None
SIM card	None								Battery type	Li-Ion 6-cell (48Wh)
Dimensions	<i>All (WxDxH):</i> 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)								Battery life	Up to 6.3 hr
Weight									From 5.20 lb (2.36kg)	AC adapter
Case color	Graphite black								Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Limited warranty	1-year - depot repair service / service upgrades available
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

See footnotes for more detailed information

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								Dimensions	All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm)							
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics	Weight	From 5.20 lb (2.36kg)							
	A6-7000	2	2	2.2 GHz	3.0 GHz	1MB	DDR3L-1600	R5 M240	Case color	Graphite black							
	A8-7100	4	4	1.8 GHz	3.0 GHz	4MB		R5 M240	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							
	A10-7300	4	4	1.9 GHz	3.2 GHz	4MB		R7 M260DX (R6+R5 M240)	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)							
Graphics	FX-7500	4	4	2.1 GHz	3.3 GHz	4MB		R7 M265DX (R7+R5 M240)	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							
	AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 and FX APU								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							
Chipset	AMD A76M FCH Chipset								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad							
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								ThinkLight™	None							
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits								Security	Power-on password, hard disk password, supervisor password, security keyhole							
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								Security chip	None							
Optical	Some: DVD burner, 9.0mm high, fixed Some: Blank Bezel								vPro	None							
M.2 SSD	None								Fingerprint reader	None							
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection								NFC	None							
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Battery type	Li-Ion 6-cell (48Wh)							
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								Battery life	Up to 6.3 hr							
WWAN	None								AC adapter	65-watt AC adapter (Discrete Graphics)							
SIM card	None								Preload	Some: Windows® 7 Professional 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							



Lenovo® ThinkPad E560



Lenovo ThinkPad E560



Lenovo ThinkPad E560

ThinkPad E560 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor and Celeron Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
	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				
i7-6500U			2.5 GHz	3.1 GHz	4MB					
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								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
Chipset Memory	Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2
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								vPro Fingerprint reader NFC	None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None
Multi-touch	None								Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)
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™								Preload	<i>Some:</i> No operating system <i>Some:</i> 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)
Optical	Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel									
M.2 SSD	None									
Ethernet Bluetooth™	Gigabit Ethernet Connection 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									<i>Some:</i> Windows 10 Pro 64 <i>Some:</i> 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)
WWAN	None									
SIM card	None								Limited warranty	1-year - depot repair service / service upgrades available
Dimensions Weight Case color Case material	All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm From 5.39 lb (2.45kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover								Mil-Spec test Environment	None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

ThinkPad E560 20EV (TopSeller) - Windows 10

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								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 1-year - depot repair service / service upgrades available None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	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 i5-6200U	2	4	2.3 GHz 2.3 GHz	- 2.8 GHz	3MB 3MB		Intel HD Graphics 520		
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 Memory	Intel SoC (System on Chip) platform 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™									
Optical	Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel									
Ethernet Bluetooth™	Gigabit Ethernet Connection 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 Weight Case color Case material	All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm From 5.39 lb (2.45kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

ThinkPad E560 20EV (Discrete) - TopSeller (Windows 10)

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)
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								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None
	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)								Camera	Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC
Chipset	Intel SoC (System on Chip) platform								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
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							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
	Some:	15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								
Multi-touch	None								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2
Storage	Some:	SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable							vPro Fingerprint reader NFC	None Some: Fingerprint reader on the keyboard bezel, swipe sensor None
	Some:	HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™								
Optical	Some:	SSHD with 8GB NAND flash memory							Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)
	Some:	DVD burner, 9.0mm high, removable								
	Some:	Blank Bezel							Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Ethernet	Gigabit Ethernet Connection								Limited warranty	1-year - depot repair service / service upgrades available
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								Mil-Spec test	None
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
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									



Lenovo® ThinkPad E565



Lenovo ThinkPad E565



Lenovo ThinkPad E565

ThinkPad E565 Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD Accelerated Processor A6, A8, A10, or FX APU								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0</i> : Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2</i> : Trusted Platform Module, TCG 1.2-compliant <i>TPM</i> : TPM2.0 and TPM1.2 None <i>Some</i> : Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) Up to 6.5 hr <i>Some</i> : 45-watt AC adapter (Integrated Graphics) <i>Some</i> : 65-watt AC adapter (Discrete Graphics) <i>Some</i> : No operating system <i>Some</i> : 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) 1-year - depot repair service / service upgrades available EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	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	<i>Some</i> : 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some</i> : 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory <i>Some</i> : DVD burner, 9.0mm high, removable <i>Some</i> : Blank Bezel									
Optical	None									
M.2 SSD	None									
Ethernet	Gigabit Network Connection									
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • 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	<i>All (WxDxH):</i> 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									

ThinkPad E565 20EY (TopSeller) - Windows 10

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								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None	
	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);								Camera Audio support	HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Chipset Memory	AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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	
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0</i> : Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2</i> : Trusted Platform Module, TCG 1.2-compliant <i>TPM</i> : TPM2.0 and TPM1.2	
Multi-touch	None								vPro	None	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel								Fingerprint reader NFC	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None	
Optical									Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) Up to 6.5 hr 45-watt AC adapter (Integrated Graphics)	
Ethernet Bluetooth™	Gigabit Network Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	<i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64
WLAN	<i>One of the following, configurable by model:</i> • 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								Limited warranty	1-year - depot repair service / service upgrades available	
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
SIM card	None										
Dimensions	<i>All (WxDxH):</i> 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										

ThinkPad E565 20EY (Discrete) - TopSeller (Windows 10)

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								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	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)								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
Chipset	AMD SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								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
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								vPro Fingerprint reader NFC	None Some: Fingerprint reader on the keyboard bezel, swipe sensor None
Multi-touch	None								Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) Up to 6.5 hr 65-watt AC adapter (Discrete Graphics)
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™								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Optical	Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel								Limited warranty	1-year - depot repair service / service upgrades available
Ethernet	Gigabit Network Connection								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
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									

Lenovo Quick Pick (Accessories & Services)

Product Specifications Reference (PSREF)

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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