ThinkCentre®

Product Specifications Reference
Lenovo® ThinkCentre Desktops

February 2014 - Version 450

Lenovo ThinkCentre M92/M92p
(Tiny, Small, and Tower Form Factors with Lenovo ThinkVision Monitor)

*Visit **www.lenovo.com/psref** for the latest version*

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Recently Launched Think Accessories

ThinkPad Compact Bluetooth Keyboard with Trackpoint
(PN: 0B47189)

ThinkPad Noise Cancelling Earbuds
(PN: 0B47313)

Lenovo Wireless TouchPad for Windows 8
(PN: 0A33909)

Additional Think Accessories

ThinkPad USB 3.0 Portable Secure HDD (500GB , 750GB, 1TB)
(PN: 0A65619, 0A65616, 0A65621)

Lenovo Ultraslim Wireless Keyboard and Mouse Combo
(PN: 0A34032)

Kensington MicroSaver Security Cable Lock from Lenovo
(PN: 73P2582)

AMPLIFY YOUR DO MACHINE

LENOVO THINK ACCESSORIES

Lenovo Quick Pick (**http://www.lenovoquickpick.com/**) is an options compatiblity configurator for Lenovo systems.

For more information on the various ThinkCentre systems, please see below :

ThinkCentre M72e

M72e Tiny 4004/3264/3267
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m72e-tiny

M72e Small 0967/3598/3660/3664
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m72e-sff

M72e Tower 0958/3675/3597/3655/3662
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m72e-tower

ThinkCentre M72z

M72z AIO 3543/3548/3554/3558/
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m72z-aio

ThinkCentre M77

M77 Small 2227/2209/1996/1997
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m77-sff

M77 Tower 1995/1990/1982/1983
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m77-tower

ThinkCentre M78

M78 Small 5100/4865/2113/2114
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-sff

M78 Tower 2111/1766/1562/1565
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-tower

ThinkCentre M82

M82 Small 3306/3395/2756/2929
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m82-sff

M82 Tower 3302/3392/2697/2742
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m82-tower

ThinkCentre M90z

M90z AIO 3429/5205
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m90z-aio

ThinkCentre M91/M91p

M91/M91p Eco USFF 7519/7516/0266/5067
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m91-m91p-eco-usff

M91/M91p Small 4480/4518/7033
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m91-m91p-sff

M91/M91p Tower 7052/4524/7034
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m91-m91p-tower

ThinkCentre M92/M92p

M92/M92p Tiny 3234/3229/2121/3243/3238/3237
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m92-m92p-tiny

M92/M92p Small 3207/2988/3209/3227
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m92-m92p-sff

M92/M92p Tower 3208/2992/3212/3228
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m92-m92p-tower

ThinkCentre M92z

M92z AIO 3280/3291/3296/32989/3315/3318/3325/3327/3311/3314/3329
www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m92z-aio

ThinkCentre Edge 72

Edge 72 Small 3493
www.lenovoquickpick.com/usa/system/thinkcentre/edge-series/edge-72-sff

Edge 72 Tower 3484
www.lenovoquickpick.com/usa/system/thinkcentre/edge-series/edge-72-tower

ThinkCentre Edge 92z

Edge 92z AIO 3396/3399/3418/3426/3414/3417
www.lenovoquickpick.com/usa/system/thinkcentre/edge-series/edge-92z-aio

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Lenovo ThinkCentre M32 Thin Client
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client
(inside view)

Lenovo ThinkCentre M32 Thin Client

ThinkCentre® M32 (10BV) - Thin Client (TopSeller) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0009US	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0007US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BV0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BV000EUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000FUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000AUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13
10BV000BUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year depot warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **depot repair service** / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre® M32 (10BV) - Thin Client (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0005US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0001US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013

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ThinkCentre® M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BV0004US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0000US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BV0002US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BV000GUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000HUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000CUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13
10BV000DUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre® M32 (10BM) - Thin Client (1-year depot)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0001US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0004US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BM000MUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BM000TUS	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0013US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0015US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM000YUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13
10BM0010US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13

- *1-year depot warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **depot repair service** / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre® M32 (10BM) - Thin Client (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0000US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0002US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13

- *1-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013

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ThinkCentre® M32 (10BM) - Thin Client (3-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global	OS preload	Ann date *(mm/dd/yy)*
10BM0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0005US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BM0003US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BM0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	09/03/13
10BM000RUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0014US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0011US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13
10BM0012US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES52	None	WES 7	12/10/13

●*3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

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- NX NoMachine Client
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- VDI-In-A-Box Java Client
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- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
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- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013

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ThinkCentre® M32 (10BM) - Thin Client (GMP)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 5.2	Global (G) GMP (P)	OS preload	Ann date *(mm/dd/yy)*
10BM0009US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	09/03/13
10BM000AUS	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES52	G P	WES 7	09/03/13
10BM000BUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES52	G P	WES 7	09/03/13
10BM0017US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	12/24/13
10BM0018US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES52	G P	WES 7	12/24/13
10BM0019US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES52	G P	WES 7	12/24/13

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Mainstream Thin Client with better security and manageability for the enterprise*
Processor	**Intel® Celeron® Processor 807** (**1 cores / 2 threads**, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Celeron Processor 847** (**2 cores / 2 threads**, 1.1GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Memory	4GB max, **PC3-12800 1600MHz DDR3***, one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with1333MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz
DP dongle	Optional DisplayPort to Single-link DVI-D dongle
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card
Optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card
eSATA port	None
Chipset	**Mobile Intel NM70 Express Chipset**
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort
PCIe Mini Card	None
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	Supports VESA 100mm mount standard
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU
Machine	● Business black color; USFF (2L) ● Fan-less, Cable-less Design ● (*Wthout stand*) 2.2" W X 6.7" D X 8.7" H ● (*Wthout stand*) 55mm W X 170mm D X 220mm H ● (*Wthout stand*) 3.3 lb (1.48 kg) in maximum configuration
Protocols	Citrix: ICA, HDX (compatible with XenDesktop and XenApp) Microsoft: RDP, RemoteFX (WES 7 models only), RDS VMWare: VMware Horizon View through RDP VMware Horizon View through PCoIP
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)*
*A license is included with the purchase of M32 and the utility is downloadable from website

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
GREENGUARD® certified
RoHS-compliant
WEEE
REACH
VMWare Ready Certification
Citrix Ready/HDX Ready Certification
MS RemoteFX Certification (WES models)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 24, 2013

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ThinkCentre®

Lenovo ThinkCentre M72e Tiny
with Optional Serial Port

Lenovo ThinkCentre M72e Tiny, Small, and Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M72e Small

Lenovo ThinkCentre M72e Tiny
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M72e Tower

Lenovo ThinkCentre M72e Tiny
with External Optical Box

ThinkCentre® M72e Tiny (4004) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
4004-A1U	i3-2120T	4GBx1	320G 5400	DVD±RW	HD 2000	None	None	None	None	Mount	ES52	None	Pro 64	06/05/12
✂ 4004-A2U	G630T	4GBx1	320G 5400	DVD±RW	Intel HD	None	None	None	None	Mount	ES52	None	Pro 64	06/05/12
✂ 4004-A7U	G630T	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-A9U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-B2U	i3-2120T	4GBx1	320G 5400	None	HD 2000	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-C3U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 2230 + BT	None	None	Mount	ES52	None	Pro 64	06/19/12
4004-C4U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	Stand	Mount	ES52	None	Pro 64	06/19/12
4004-B8U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Stand	Mount	ES52	None	Pro 64	07/10/12
4004-B5U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Stand	Mount	ES52	None	Pro 32	07/10/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G630T Processor** (**2 cores / 2 threads**, 2.3GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Core™ i3-2120T Processor** (**2 cores / 4 threads**, 2.6GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, June 19, or July 10, 2012
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Tiny (4004) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
4004-A8U	i5-3470T	4GBx1	750G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-B1U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	06/05/12
4004-B4U	i5-3470T	4GBx2	750G 5400	None	HD 2500	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
4004-C1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	Intel 2230 + BT	None	Stand	Mount	ES52	None	Pro 64	06/19/12
4004-C2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Pro 64	06/19/12
4004-B7U	i5-3470T	2GBx1	320G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	07/10/12
4004-B6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Pro 64	07/10/12
4004-E7U	i3-3220T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Pro 64	09/04/12
4004-E8U	i3-3220T	4GBx1	500G 5400	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i3-3220T Processor** (**2 cores / 4 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, June 19, July 10, or September 4, 2012

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ThinkCentre® M72e Tiny (4004) - TopSeller (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 4004-D1U	G460	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32	07/10/12
✂ 4004-E9U	G640T	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32	08/14/12
4004-K4U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Emb 32	03/05/13
✂ 4004-K3U	G640T	2GBx1	8G SSD	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Emb 32	03/05/13
4004-LJU	G470	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	None	ES52	None	Emb 32	06/11/13
4004-LKU	G1610T	2GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32	06/11/13
4004-LGU	G2020T	2GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32	06/11/13
4004-LHU	G2020T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	None	Mount	ES52	None	Emb 32	06/11/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G470 Processor** (**1 core / 2 threads**, 2.0GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G1610T Processor** (**2 core / 2 threads**, 2.3GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller **Intel Pentium® G640T Processor** (**2 cores / 2 threads**, 2.4GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium G2020T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller **Intel Core i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution*: 2560x1600 (VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced July 10, 2012, August 14, 2012, March 5, 2013, or June 11, 2013

✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Tiny (4004) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
4004-C6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-C7U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-C8U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Win8 Pro64	10/23/12
4004-F2U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	Mount	ES52	None	Win8 Pro64	10/23/12
4004-F3U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win8 Pro64	10/23/12
4004-G6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-G7U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 105	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-G8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-H1U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	Intel 105	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-H3U	i3-3220T	4GBx1	500G 5400	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	11/20/12
4004-H4U	i3-3220T	4GBx1	180G SSD	None	HD 2500	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	11/20/12
4004-J1U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	Intel 105	Serial	Stand	None	ES52	None	Win7 Pro64	12/25/12
4004-L2U	i5-3470T	4GBx2	180G SSD	DVD±RW	HD 2500	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64	03/12/13

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220T Processor** (**2 cores / 4 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Mar 12, 2013

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ThinkCentre® M72e Tiny (4004) - TopSeller (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
✂ 4004-F1U	G640T	4GBx1	320G 7200	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Win8 Pro64	10/23/12
4004-G3U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	Stand	None	ES52	None	Win7 Pro64	10/23/12
4004-G4U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	10/23/12
4004-G5U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	Stand	None	ES52	None	Win7 Pro64	10/23/12
4004-G9U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	None	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-H2U	i3-2120T	4GBx1	500G 7200	None	HD 2000	None	Intel 2230 + BT	None	None	Mount	ES52	None	Win7 Pro64	10/23/12
4004-H5U	G645T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	11/20/12
4004-J2U	G645T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	Serial	Stand	None	ES52	None	Win7 Pro64	12/25/12
4004-H6U	G1610T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	01/22/13
4004-H7U	G2020T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	None	Win7 Pro64	01/22/13

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1610T Processor** (**2 cores / 2 threads**, 2.3GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium® G640T Processor** (**2 cores / 2 threads**, 2.4GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium G645T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120T Processor** (**2 cores / 4 threads**, 2.6GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Jan 22, 2013
✂ US model withdrawn effective November 2013

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ThinkCentre® M72e Tiny (3264)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2 Global		Win7 preload	Ann date *(mm/dd/yy)*
✂ 3264-D7U	G630T	4GBx1	320G 5400	DVD±RW	Intel HD	None	None	None	None	Mount	ES52	None	Pro 64	06/05/12
3264-A1U	i3-2120T	4GBx1	320G 5400	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
✂ 3264-A2U	G630T	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
✂ 3264-A3U	G530T	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32	06/05/12
✂ 3264-A4U	G460	2GBx1	320G 5400	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32	06/05/12
3264-A5U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
3264-P7U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 105	None	None	Mount	ES52	None	Pro 64	06/19/12
3264-P8U	i3-2120T	4GBx1	500G 7200	DVD±RW	HD 2000	None	Intel 105	None	None	Mount	ES52	None	Prem 64	06/19/12
3264-N2U	i3-2120T	2GBx1	320G 7200	None	HD 2000	None	None	None	Stand	None	ES52	None	Pro 32	07/10/12
3264-N3U	i3-2120T	4GBx1	320G 7200	DVD±RW	HD 2000	None	None	None	None	Mount	ES52	None	Pro 32	07/10/12
✂ 3264-N4U	G630T	4GBx1	320G 7200	None	Intel HD	None	None	None	Stand	None	ES52	None	Pro 32	07/10/12

●*3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G530T Processor** (**2 cores / 2 threads**, 2.0GHz, 2MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium® G630T Processor** (**2 cores / 2 threads**, 2.3GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Core™ i3-2120T Processor** (**2 cores / 4 threads**, 2.6GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64
Some: Genuine Windows 7 Home Premium 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, June 19, or July 10, 2012
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Tiny (3264) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Chassis Intrusion switch	Security Cable	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3264-A7U	i5-3470T	4GBx1	500G 5400	DVD±RW	None	None	None	None	None	None	Mount	ES52	None	Pro 64	06/05/12
3264-B7U	i5-3470T	4GBx1	500G 5400	None	None	None	None	None	None	Stand	None	ES52	None	Pro 64	06/05/12
3264-P9U	i5-3470T	4GBx1	500G 7200	DVD±RW	None	Intel 105	None	None	None	None	Mount	ES52	None	Pro 64	06/19/12
3264-Q1U	i5-3470T	4GBx1	500G 7200	DVD±RW	None	Intel 2230 + BT	None	None	None	None	Mount	ES52	None	Pro 64	06/19/12
3264-Q2U	i5-3470T	4GBx1	500G 7200	None	None	Intel 2230 + BT	None	None	None	Stand	Mount	ES52	None	Pro 64	06/19/12
3264-N5U	i5-3470T	4GBx1	500G 7200	None	None	None	None	None	None	Stand	None	ES52	None	Pro 64	07/10/12
✂ 3264-V1U	i5-3470T	4GBx2	180G SSD	DVD±RW	None	Intel 2230 + BT	None	Switch	Cable	None	Mount	ES52	None	Pro 64	11/06/12

- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, June 19, July 10, or Nov 6, 2012
✂ US model withdrawn effective February 2013

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ThinkCentre® M72e Tiny (3264) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3264-R3U	G460	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	Mount	ES52	None	Emb 32	07/10/12
✂ 3264-R6U	G640T	4GBx1	8G SSD	None	Intel HD	None	None	None	None	Mount	ES52	None	Emb 32	09/04/12
✂ 3264-AMU	G640T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	Stand	None	ES52	None	Emb 32	03/05/13
3264-YSU	G2020T	2GBx1	8G SSD	None	Intel HD	None	Intel 2230 + BT	None	Stand	None	ES52	None	Emb 32	06/11/13
3264-YTU	G470	2GBx1	8G SSD	None	Intel HD	None	None	None	Stand	None	ES52	None	Emb 32	06/11/13

- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G470 Processor** (**1 core / 2 threads**, 2.0GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium® G640T Processor** (**2 cores / 2 threads**, 2.4GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium G2020T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution*: 2560x1600 (VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10, 2012, September 4, 2012, March 5, 2013, or June 11, 2013
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Tiny (3264) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3264-Q5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	Stand	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R8U	i3-3220T	4GBx1	320G 7200	None	HD 2500	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-R9U	i3-3220T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-S1U	i5-3470T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-S2U	i5-3470T	4GBx1	320G 7200	None	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-T2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T3U	i3-3220T	4GBx1	500G 7200	None	HD 2500	None	None	None	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-T4U	i3-3220T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T7U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-T9U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-U1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-U2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-U3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-YRU	i3-3220T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Mount	ES52	2.4G	None	Win8 Pro64	05/28/13

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i3-3220T Processor** (**2 cores / 4 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or May 28, 2013

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ThinkCentre® M72e Tiny (3264) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
✂ 3264-R7U	G640T	4GBx1	320G 7200	None	Intel HD	None	None	None	None	Mount	ES52	USB	None	Win8 Pro64	10/23/12
3264-T1U	G645T	4GBx1	500G 5400	DVD±RW	Intel HD	None	None	None	Stand	Mount	ES52	USB	None	Win7 Pro64	10/23/12
3264-T8U	G645T	2GBx1	500G 5400	None	Intel HD	None	None	None	Stand	None	ES52	USB	None	Win7 Pro64	10/23/12
3264-AEU	G645T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	Serial	None	Mount	ES52	USB	None	Win7 Pro64	12/25/12
3264-V2U	G2020T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	USB	None	Win7 Pro64	01/22/13
3264-V3U	G1610T	4GBx1	500G 5400	None	Intel HD	None	Intel 105	None	Stand	None	ES52	USB	None	Win7 Pro64	01/22/13
3264-YQU	G2020T	4GBx1	500G 7200	None	Intel HD	None	Intel 105	None	None	Mount	ES52	2.4G	None	Win8 Pro64	05/28/13

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Celeron® G1610T Processor** (**2 cores / 2 threads**, 2.3GHz, 2MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium® G640T Processor** (**2 cores / 2 threads**, 2.4GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium G645T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020T Processor** (**2 cores / 2 threads**, 2.5GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced Oct 23, 2012, Dec 25, 2012, Jan 22, 2013, or May 28, 2013
✂ US model withdrawn effective November 2013

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ThinkCentre® M72e Tiny (3267) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3267-A1U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Pro 64	06/05/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN[4]	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	None
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced June 5, 2012

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ThinkCentre® M72e Tiny (3267) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	PCIe Mini Card WLAN / BT	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3267-A2U	G460	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	07/10/12
✂ 3267-A5U	G465	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	01/08/13
✂ 3267-A6U	G465	2GBx1	8G SSD	None	Intel HD	None	Intel 105	Serial	None	None	ES52	G P	Emb 32	03/12/13
3267-A7U	G470	2GBx1	8G SSD	None	Intel HD	None	Intel 105	Serial	None	None	ES52	G P	Emb 32	07/09/13
3267-A8U	G470	2GBx1	8G SSD	None	Intel HD	None	None	Serial	None	None	ES52	G P	Emb 32	07/09/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G465 Processor** (**1 core / 2 threads**, 1.9GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G470 Processor** (**1 core / 2 threads**, 2.0GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution*: 2560x1600 (VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	None
Mouse	None
Floor Stand	None
VESA mount	None
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10, 2012, January 8, 2013, March 12, 2013, or July 9, 2013
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Tiny (3267) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	Display-Port dongle	Optional port	Floor stand	VESA mount	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3267-A3U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Win8 Pro64	10/23/12
3267-A4U	i5-3470T	4GBx1 1600MHz	320G 5400	DVD±RW	HD 2500	None	None	None	Mount	ES52	G P	Win7 Pro64	10/23/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution vary by processor (i5 CPU supports max:* 2560x2048)
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 3.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Three USB 2.0 (external ODD occupies dedicated USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN[4]	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	None
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 4.6 lb (2.1 kg) in maximum configuration (not including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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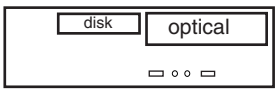
ThinkCentre® M72e Small (0967) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
0967-A1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	06/05/12
0967-A7U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, or September 4, 2012

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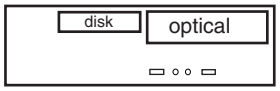
ThinkCentre® M72e Small (0967) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 0967-A2U	3x2	G860	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	06/19/12
✂ 0967-A3U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	None	None	Pro 64	06/19/12
0967-B2U	3x2	G640	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G860 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066 or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19 or September 4, 2012
✂ US model(s) withdrawn effective November 2013

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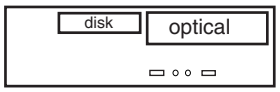
ThinkCentre® M72e Small (0967) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
✂ 0967-A8U	3x2	G870	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win8 Pro64	10/23/12
0967-A9U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win8 Pro64	10/23/12
0967-B1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win8 Pro64	10/23/12
0967-B6U	3x2	G645	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
✂ 0967-B3U	3x2	G860	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B4U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B5U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	10/23/12
0967-B8U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	12/04/12
0967-C1U	3x2	G2020	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	02/19/13
0967-B9U	3x2	G2120	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	02/19/13
0967-C2U	3x2	i7-3770	4GBx2 1600MHz	250G 7200	DVD±RW	HD 4000	None	Stand	None	None	Win7 Pro64	06/11/13

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G860 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics**, **Intel HD Graphics 2500**, or **Intel HD Graphics 4000** in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23 or December 4, 2012 or February 19 or June 11, 2013
✂ US model(s) withdrawn effective November 2013

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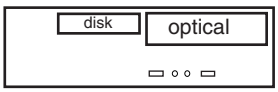
ThinkCentre® M72e Small (3598) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3598-A5U	3x2	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 64	06/05/12
3598-E3U	3x2	i5-3570	4GBx1 1600MHz	250G 7200	DVD±RW	HD 2500	None	Stand	None	None	Pro 32	06/05/12

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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ThinkCentre® M72e Small (3598) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
✂ 3598-F9U	3x2	G870	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win8 Pro64	10/23/12
3598-G9U	3x2	G640	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
✂ 3598-H1U	3x2	G870	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
3598-H2U	3x2	G640	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	10/23/12
3598-H3U	3x2	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	10/23/12
3598-K2U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	None	None	Win7 Pro64	12/04/12
3598-PEU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	None	None	Win7 Pro64	06/25/13

●3-year limited warranty

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23 or December 4, 2012 or June 25, 2013
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72e Small (3660) - ES 5.2 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3660-C1U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Pro 32	06/05/12

- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 32

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced June 5, 2012

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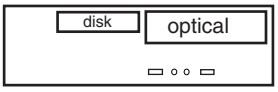
ThinkCentre® M72e Small (3660) - ES 5.2 (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3660-D3U	3x2	G645	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win8 Pro64	10/23/12
✂ 3660-D4U	3x2	G870	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-E2U	3x2	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2000	None	Stand	ES52	None	Win7 Pro64	10/23/12
3660-E3U	3x2	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	Stand	ES52	None	Win7 Pro64	01/22/13

- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or January 22, 2013
✂ US model withdrawn effective November 2013

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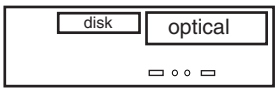
ThinkCentre® M72e Small (3660) - ES 5.2 (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3660-D5U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D6U	3x2	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D7U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D8U	3x2	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 2500	None	Stand	ES52	None	Win8 Pro64	10/23/12
3660-D9U	3x2	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 7450	None	Stand	ES52	None	Win8 Pro64	10/23/12

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11 one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio
- Intel AppUp®
- AccuWeather
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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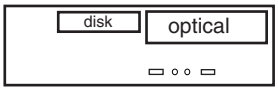
ThinkCentre® M72e Small (3664) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3664-A1U	3x2	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	06/05/12
3664-A2U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	G P	Pro 64	06/19/12
3664-A4U	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	08/21/12
3664-A6U	3x2	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Pro 64	05/28/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced June 5, 2012, June 19, 2012, August 21, 2012, or May 28, 2013

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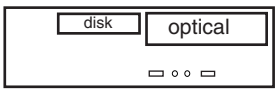
ThinkCentre® M72e Small (3664) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3664-A3U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	Switch	Stand	ES52	G P	Win8 Pro64	10/23/12
3664-A5U	3x2	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	Stand	ES52	G P	Win7 Pro64	10/23/12

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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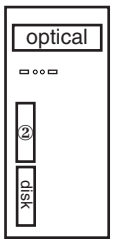
ThinkCentre® M72e Tower (0958) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
0958-A1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	06/05/12
0958-A4U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, or September 4, 2012

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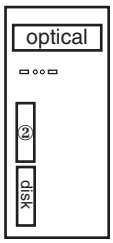
ThinkCentre® M72e Tower (0958) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 0958-A2U	3x3	G860	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	06/19/12
✂ 0958-A3U	3x3	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	None	None	Pro 64	06/19/12
0958-A8U	3x3	G640	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G860 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066 or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19 or September 4, 2012
✂ US model(s) withdrawn effective November 2013

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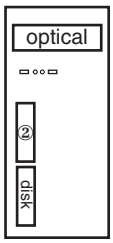
ThinkCentre® M72e Tower (0958) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
✂ 0958-A5U	3x3	G870	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win8 Pro64	10/23/12
0958-A6U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win8 Pro64	10/23/12
0958-A7U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win8 Pro64	10/23/12
✂ 0958-A9U	3x3	G860	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
0958-B1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
0958-B2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
0958-B3U	3x3	G645	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
0958-B4U	3x3	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	12/04/12
0958-B5U	3x3	G2120	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	02/19/13
0958-B6U	3x3	G2020	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	02/19/13
0958-B7U	3x3	i7-3770	4GBx2 1600MHz	250G 7200	Bay	DVD±RW	HD 4000	None	None	None	Win7 Pro64	06/11/13

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G860 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics**, **Intel HD Graphics 2500**, or **Intel HD Graphics 4000** in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23 or December 4, 2012 or February 19 or June 11, 2013
✂ US model(s) withdrawn effective November 2013

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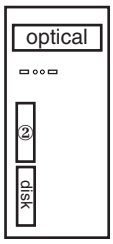
ThinkCentre® M72e Tower (3675) - ES 5.2 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3675-A1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Pro 64	06/05/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced June 5, 2012

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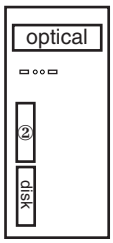
ThinkCentre® M72e Tower (3597) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3597-D4U	3x3	i5-3570	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 32	06/05/12
3597-C3U	3x3	i5-3550	4GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	06/05/12
3597-E3U	3x3	i5-3470	2GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	07/10/12
3597-E2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	07/10/12
3597-E9U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Pro 64	09/04/12

- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, July 10, or September 4, 2012

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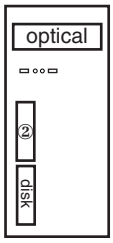
ThinkCentre® M72e Tower (3597) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3597-F4U	3x3	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	None	None	Win7 Pro64	10/23/12
3597-F5U	3x3	i5-3570	4GBx2 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
✂ 3597-F6U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
3597-F7U	3x3	i5-3470	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-F8U	3x3	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	10/23/12
3597-F9U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-G1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	None	Win7 Pro64	10/23/12
3597-G2U	3x3	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	None	None	Win7 Pro64	12/04/12

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics**, **Intel HD Graphics 2000**, or **Intel HD Graphics 2500** in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration • Handle on top front • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo® Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23 or December 4, 2012
✂ US model withdrawn effective November 2013

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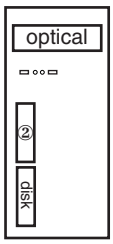
ThinkCentre® M72e Tower (3655) - ES 5.2 (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3655-D8U	3x3	G645	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win8 Pro64	10/23/12
✂ 3655-D9U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win8 Pro64	10/23/12
3655-E8U	3x3	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2000	None	ES52	None	Win7 Pro64	10/23/12
✂ 3655-F1U	3x3	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win7 Pro64	10/23/12
3655-F3U	3x3	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	Intel HD	None	ES52	None	Win7 Pro64	01/22/13

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets; *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or January 22, 2013
✂ US model(s) withdrawn effective November 2013

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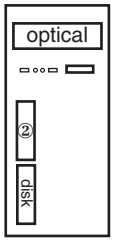
ThinkCentre® M72e Tower (3655) - ES 5.2 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3655-C1U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	ES52	None	Pro 32	06/05/12
3655-D2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	None	ES52	None	Pro 64	07/10/12
✂ 3655-F2U	3x4	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	HD 4000	Media	Switch	ES52	None	Pro 64	11/06/12

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	*Some:* 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, July 10, or November 6, 2012
✂ US model withdrawn effective February 2013

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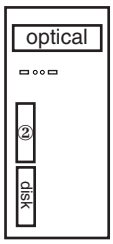
ThinkCentre® M72e Tower (3655) - ES 5.2 (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3655-E5U	3x3	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	HD 7450	None	ES52	None	Win8 Pro64	10/23/12
3655-E1U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E2U	3x3	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E3U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E4U	3x3	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win8 Pro64	10/23/12
3655-E9U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	None	Win7 Pro64	10/23/12

● *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11 one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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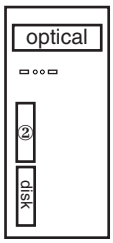
ThinkCentre® M72e Tower (3662) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3662-A1U	3x3	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	06/05/12
3662-A2U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	G P	Pro 64	06/19/12
3662-A4U	3x3	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	08/21/12
3662-A6U	3x3	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Pro 64	05/28/13

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced June 5, 2012, June 19, 2012, August 21, 2012, or May 28, 2013

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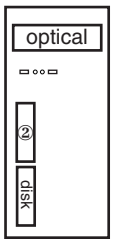
ThinkCentre® M72e Tower (3662) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3662-A3U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	Switch	ES52	G P	Win8 Pro64	10/23/12
3662-A5U	3x3	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	HD 2500	None	ES52	G P	Win7 Pro64	10/23/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk Bay 3: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72E sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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Memory

Tiny 4004/3264/3267 use notebook memory:

2GB PC3-12800 DDR3 SODIMM	0A65722	*ann 06/05/12*
4GB PC3-12800 DDR3 SODIMM	0A65723	*ann 06/05/12*
8GB PC3-12800 DDR3 SODIMM	0A65724	*ann 06/05/12*

Small 0967/3598/3660/3664, and Tower 0958/3675/3597/3655/3662 use desktop memory:

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

Small and Tower support:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max[4]	41N5618	*ann 09/26/06*
Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

Tiny support:

320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD	0A65635	*ann 06/05/12*
500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD	0A65632	*ann 06/05/12*

Small and Tower support:

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
180GB Solid State Drive	0B47308	*ann 01/29/13*

All:

USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 0967/3598/3660/3664 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

Tower 0958/3675/3597/3655/3662 support 60 watts max:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Under Desk Mount

Tiny support:

ThinkCentre Tiny Under Desk Mount Bracket	0B47097	*ann 08/07/12*

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Tiny support:

DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*

Small and Tower support:

Lenovo DVI to DVI Monitor Cable	0B47071	

All:

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	*ann 08/14/12*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

ThinkCentre M73 Tiny
with Optional WLAN

ThinkCentre M73 Tiny with
ThinkVision Monitor

ThinkCentre M73 Tiny
with optional I/O Box

ThinkCentre M73 Tiny with
ThinkVision Monitor

ThinkCentre M73 Tiny with
optional External Optical Box

ThinkCentre M73 Tiny

ThinkCentre®

ThinkCentre M73 Small
and Mini Tower

ThinkCentre M73 Small
with ThinkVision Monitor

ThinkCentre M73 Small

ThinkCentre M73 Mini Tower
with ThinkVision Monitor

ThinkCentre M73 Mini Tower

ThinkCentre M73 Mini Tower

ThinkCentre M73 Tiny (10AY) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0037US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AY0038US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14
10AY0039US	G1820T	4GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14

- *1-year depot warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Flash Memory	8GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models) \
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10AY) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AY0005US	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY0006US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001SUS	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001TUS	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001UUS	G3220T	4GBx1	500G Hybrid	None	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001VUS	i3-4130T	8GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001WUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0004US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	None	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0020US	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY001YUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY002SUS	G1820T	4GBx1	500G 7200	None	Intel HD	7260 ac	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14
10AY003AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 6235	None	None	Stand	None	USB	Win7 Pro64 (DG)	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced Oct 1, Oct 22, or Nov 12, 2013 or Jan 14 or Feb 11, 2014

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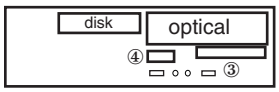
ThinkCentre M73 Small (10B6) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B60008US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B60009US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000AUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000BUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000FUS	3x4	i3-4130	8GBx1	1TB 7200	DVD±RW	N105	None	GT620	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000GUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	N105	None	Intel HD	None	Serial	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10B6000PUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000QUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13
10B6000RUS	3x4	i7-4770	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG)	11/12/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt) (**No internal speaker for 10B6000PUS*)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or November 12, 2013

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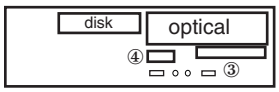
ThinkCentre M73 Small (10B6) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B6000XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B6000YUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60011US	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14
10B60013US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60012US	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14
10B60014US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/11/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt) (**No internal speaker for 10B6000PUS*)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, active PFC
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4 or 11, 2014

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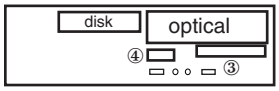
ThinkCentre M73 Small (10B5) - ES 5.2 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B50001US	3x4	i5-4570	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	None	ES5.2	None	Win7 Pro64 (DG)	10/01/13
10B5000MUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES5.2	None	Win7 P64 DG Win8.1	01/14/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	• Business black color; metal case • 13.2" W X 15.0" D X 3.9" H • 335mm W X 382mm D X 101mm H • 14.6 lb (6.6 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or January 14, 2014

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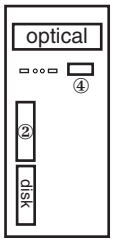
ThinkCentre M73 Mini Tower (10B0) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B00005US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00006US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B00007US	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B00008US	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	S P	None	None	Win7 P64 DG Win8	10/01/13
10B0000GUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/22/13
10B0000HUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000JUS	3x4	i5-4570	4GBx1	1TB Hybrid	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	11/12/13
10B0000KUS	3x4	i3-4130	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000LUS	3x4	i5-4570	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000NUS	3x4	G3220	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B0000QUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8.1	02/11/14
10B0000RUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1	02/11/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch, passive PFC
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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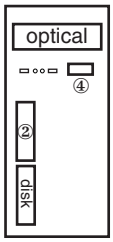
ThinkCentre M73 Mini Tower (10B2) - ES 5.2 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B20002US	3x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	ES5.2	None	Win7 Pro64 (DG)	10/01/13
10B2000QUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	ES5.2	None	Win7 P64 DG Win8.1	01/14/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820 Processor** (**2 cores / 2 threads**, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or January 14, 2014

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ThinkCentre M73 Tiny (10AX) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX005GUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AX005HUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14

- *1-year depot warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Flash Memory	8GB / DOM (Disk On Module) Card
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	• Tiny (1L), business black color; metal case • *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- WES 7 only:

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware Recovery Agent

- LeTOS only:

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating (WES models)
ENERGY STAR® 5.2 (WES models)
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 25, 2013

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ThinkCentre M73 Tiny (10AX)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX001WUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AX001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AX001YUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AX003WUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AX003YUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AX0040US	G3220T	4GBx1	500G 7200	DVD±RW	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AX0041US	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AX0042US	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220T Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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ThinkCentre M73 Tiny (10AX) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date *(mm/dd/yy)*
10AX003XUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AX0057US	G1820T	4GBx1	500G 7200	None	Intel HD	N7260	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14

●*A depot repair service 1-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Celeron® G1820T Processor** (**2 cores / 2 threads**, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or January 14, 2014

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ThinkCentre M73 Tiny (10AX) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AX002UUS	G3420T	2GBx1	320G 5400	None	Intel HD	Intel 105	None	None	Stand	None	G P	Win7 Pro64	10/01/13
10AX002VUS	i3-4130T	4GBx1	500G 5400	None	HD 4400	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10AX003DUS	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	Switch	None	Mount	G P	Win7 Pro64 (DG)	10/01/13
10AX0044US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13
10AX0045US	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420T Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Mechanical	● Tiny (1L), business black color; metal case ● *M73 Tiny only:* 7.0" W X 7.2" D X 1.4" H; 179mm W X 182mm D X 34.5mm H; 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H; 184mm W X 182mm D X 65mm H; 5.1lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or October 22, 2013

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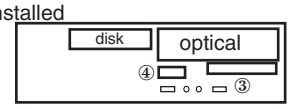
ThinkCentre M73 Small (10B7)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B7000SUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7000TUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	N2230	None	GT 620	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001TUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001UUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001VUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7001XUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8	10/01/13
10B7004XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or February 4, 2014

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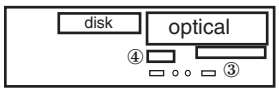
ThinkCentre M73 Small (10B4) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B4000XUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	Stand	ES5.2	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Core™ i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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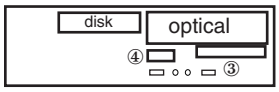
ThinkCentre M73 Small (10B4) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10B4001FUS	3x4	G3420	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	None	ES5.2	G P	Win7 Pro64	10/01/13
10B4001GUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	ES5.2	G P	Win7 Pro64 (DG)	10/01/13
10B4001HUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	N105	Media	HD 8470	Switch	None	None	ES5.2	G P	Win7 Pro64 (DG)	10/01/13
10B40020US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	ES5.2	G P	Win7 Pro64	02/04/14

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420 Processor (2 cores / 2 threads**, 3.2GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130 Processor (2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	*Some:* 240 watts, autosensing, active PFC, 85% PSU
Machine	● Business black color; metal case ● 13.2" W X 15.0" D X 3.9" H ● 335mm W X 382mm D X 101mm H ● 14.6 lb (6.6 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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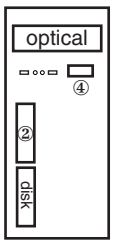
ThinkCentre M73 Mini Tower (10B3)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10B3000CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000DUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000SUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000TUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000VUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	None	None	Win7 P64 DG Win8	10/01/13
10B3000WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000XUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8	10/01/13
10B3002BUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B3002CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	*Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	None
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, manual switch, passive PFC
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013 or February 4, 2014

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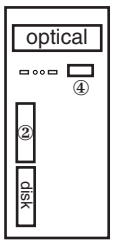
ThinkCentre M73 Mini Tower (10B1) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10B10011US	3x4	G3420	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	ES5.2	G P	Win7 Pro64	10/01/13
10B10012US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES5.2	G P	Win7 Pro64 (DG)	10/01/13
10B10017US	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	N105	Media	HD 8470	Switch	None	ES5.2	G P	Win7 Pro64 (DG)	10/01/13
10B1001KUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES5.2	G P	Win7 Pro64	02/04/14

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Essential business features, exceptional value*
Processor	**Intel® Pentium® G3420 Processor** (**2 cores / 2 threads**, 3.2GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display, works along with discrete graphics to support up to four independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	*Some:* 280 watts, autosensing, active PFC, 85% PSU
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013 or February 4, 2014

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Lenovo ThinkCentre M72z with Frame Stand

Lenovo ThinkCentre M72z with Frame Stand

Lenovo ThinkCentre M72z with Monitor Stand

Lenovo ThinkCentre M72z with Monitor Stand

Dual Independent Display with Optional Lenovo ThinkVision Monitor

ThinkCentre® M72z (3543) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3543-B6U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	Intel 105	Media	None	None	None	Frame	USB	None	Win7 Pro64	03/12/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced Mar 12, 2013

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ThinkCentre® M72z (3548) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Win7 preload	Ann date *(mm/dd/yy)*
3548-A9U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Pro 64	06/05/12
3548-B1U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3548-B2U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3548-B3U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Pro 64	06/05/12
3548-C1U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	Serial	None	Monitor	USB	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	*Some:* 7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Genuine Windows® 7
Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or September 4, 2012

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ThinkCentre® M72z (3548) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Win7 preload	Ann date *(mm/dd/yy)*
3548-B4U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	Monitor	USB	None	Pro 64	07/24/12
3548-B9U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	Serial	None	Monitor	USB	None	Pro 64	08/14/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook); *System automatically clocks down for processors with 1066MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	None
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 24 or August 14, 2012

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ThinkCentre® M72z (3548) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3548-C6U	i5-3470T	4GBx1 1600MHz	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3548-C7U	i7-3770S	4GBx2 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3548-C8U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	10/23/12
3548-C9U	i3-3240	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	10/23/12
3548-D1U	G640	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	10/23/12
3548-D2U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win7 Pro64	10/23/12
✂ 3548-D3U	G860	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	None	None	None	None	Monitor	USB	None	Win7 Pro64	10/23/12
3548-F2U	i3-3220	4GBx1 1600MHz	2.0M	180G SSD	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	11/20/12
3548-F4U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	01/22/13
3548-F7U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	03/05/13
3548-F9U	i7-3770S	8GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	03/05/13
3548-G1U	i5-3470S	4GBx1 1600MHz	2.0M	1TB 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	03/12/13

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G860 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics / 2500 / 4000** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	*Some:* 7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Settings
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- ThinkVantage Automatic lock Utility
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced Oct 23, 2012, Nov 20, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12, 2013
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72z (3548) - TopSeller (Win 8) - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3548-H2U	i7-3770S	8GBx1 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Win7 Pro64	06/11/13
3548-H3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	2.4G	None	Win7 Pro64	06/11/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 11, 2013

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ThinkCentre® M72z (3548) - TopSeller (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3548-E9U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	11/20/12
3548-F1U	G645	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	11/20/12
3548-F3U	G645	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	Serial	None	Frame	USB	None	Win7 Pro64	11/20/12
3548-F6U	G2120	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	12/04/12
3548-F5U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	01/22/13
3548-F8U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	03/05/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced Nov 20, 2012, Dec 4, 2012, Jan 22, 2013, or Mar 5, 2013

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ThinkCentre® M72z (3554)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Win7 preload	Ann date *(mm/dd/yy)*
3554-E2U	i7-3770S	4GBx2 1600MHz	2.0M	500G 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3554-E3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Pro 64	06/05/12
3554-E4U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Prem 64	06/05/12
3554-E5U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Pro 64	06/05/12
3554-E6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Prem 32	06/05/12

●*3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	*Some:* 7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm) *Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Genuine Windows® 7 Home Premium 32
Some: Genuine Windows® 7 Home Premium 64
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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ThinkCentre® M72z (3554) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3554-H2U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3554-H3U	i3-3240	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3554-H4U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3554-H7U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3554-H8U	i7-3770S	4GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Monitor	USB	None	Win8 Pro64	10/23/12
3554-M9U	i5-3470S	4GBx1 1600MHz	2.0M	180G SSD	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	11/20/12
3554-Q6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Monitor	USB	None	Win7 Pro64	07/09/13

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	*Some:* 7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Monitor stand:* ● Business black color ● 20.0" W X 8.9" D X 17.0" H ● 507mm W X 227mm D X 431mm H (including stand) ● 18.5 lb (8.4 kg) in maximum configuration ● Tilt: 25° back, -5° forward; Lift: 110mm; Swivel: +/-45° ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Settings
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- ThinkVantage Automatic lock Utility
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23 or November 20, 2012 or July 9, 2013

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ThinkCentre® M72z (3554) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
3554-H1U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64	10/23/12
3554-H5U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64	10/23/12
3554-H6U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	None	None	None	None	Frame	USB	None	Win8 Pro64	10/23/12
3554-H9U	i7-3770S	4GBx1 1600MHz	2.0M	1TB 7200	HD 4000	11b/g/n	Media	None	None	None	Frame	USB	None	Win8 Pro64	10/23/12
3554-M7U	i3-3220	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	11/20/12
3554-N1U	G2020	2GBx1 1600MHz	2.0M	500G 7200	Intel HD	11b/g/n	Media	None	None	None	Frame	USB	None	Win7 Pro64	01/22/13

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics / 2500 / 4000** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	Hard Disk Drive / SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	*Some:* 7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Settings
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- ThinkVantage Automatic lock Utility
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012, November 20, 2012, or January 22, 2013

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ThinkCentre® M72z (3558) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3558-A2U	i5-3550S	4GBx1 1600MHz	2.0M	250G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	06/05/12
3558-A4U	i5-3570S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Pro 64	08/14/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-3550S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or August 14, 2012

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ThinkCentre® M72z (3558) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3558-A5U	G460	2GBx1 1600MHz	None	8G SSD	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	11/20/12
✂ 3558-A7U	G465	2GBx1 1600MHz	None	8G SSD	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	01/08/13
3558-A8U	G470	2GBx1 1600MHz	None	8G SSD	None	Intel HD	11b/g/n	None	Switch	Serial	None	Frame	USB	G P	Emb 32	06/11/13

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G465 Processor** (**1 core / 2 threads**, 1.9GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G470 Processor** (**1 core / 2 threads**, 2.0GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1066MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	None
Camera	None
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
Optical	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Genuine Windows® 7 Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced November 20, 2012 or January 8 or June 11, 2013
✂ US model(s) withdrawn effective November 2013

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ThinkCentre® M72z (3558) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial port	PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3558-A3U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	Switch	None	None	Frame	USB	G P	Win8 Pro64	10/23/12
3558-A6U	i5-3470S	4GBx1 1600MHz	2.0M	500G 7200	HD 2500	11b/g/n	Media	None	None	None	Frame	USB	G P	Win7 Pro64	10/23/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
Multi-touch	Nonep
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	7-in-1 Single Slot SD media reader
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VB
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	*Model(s) with Non multi-touch, Frame stand:* ● Business black color ● 20.0" W X 4.0" D X 16.2" H ● 507mm W X 101mm D X 411mm H (including stand) ● 14.6 lb (6.6 kg) in maximum configuration ● Handle in rear, removable feet ● Support VESA mount (100mm)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Settings
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- ThinkVantage Automatic lock Utility
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M72Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	*ann 06/05/12*
4GB PC3-12800 DDR3 SODIMM	0A65723	*ann 06/05/12*
8GB PC3-12800 DDR3 SODIMM	0A65724	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	***ann 11/06/07***
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	***ann 08/19/08***
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo® USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	***ann 09/13/11***
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	***ann 10/20/09***
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	***ann 05/01/12***

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	***ann 08/14/12***
DisplayPort™ to Single-link DVI-D Cable	45J7915	***ann 08/05/08***
DisplayPort to VGA Monitor Cable	57Y4393	***ann 08/04/09***
DisplayPort to DisplayPort Monitor Cable	0A36537	***ann 09/13/11***
Kensington MicroSaver Cable Lock[56]	73P2582	***ann 12/29/03***
Kensington Twin Head Cable Lock[56]	45K1620	***ann 09/30/08***
Lenovo Security Cable Lock[56]	57Y4303	***ann 08/24/10***
ThinkCentre Extend Arm[70]	57Y4352	***ann 07/06/10***

[46] Compatible on selected Lenovo and ThinkVision monitors.
[70] Desk Mount only.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

ThinkCentre M73z with Frame Stand
and optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand
and optional wireless keyboard and mouse

ThinkCentre M73z with Frame Stand
with optional PS/2 and Serial ports

ThinkCentre M73z with Monitor Stand
with optional PS/2 and Serial ports

ThinkCentre M73z with Frame Stand
with optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand
with optional wireless keyboard and mouse

ThinkCentre® M73z (10BC) - TopSeller (1-year Onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0005US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000HUS	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre® M73z (10BC) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC0001US	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BC0002US	i7-4770S	4GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0003US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0004US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0006US	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0007US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0008US	i5-4570S	4GBx1 1600MHz	720p	180G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0009US	i5-4570S	4GBx1 1600MHz	720p	128G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre® M73z (10BC) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000BUS	i5-4670S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000CUS	i7-4770S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000DUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000EUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000FUS	i3-4130	4GBx1	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000GUS	G3220	2GBx1	720p	500G 7200	Intel HD	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000QUS	i5-4570S	4GBx1	720p	500G 7200	HD 4600	N2230	Media	None	None	None	USB	None	Win7 Pro64 DG	11/12/13
10BC000YUS	G3220	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0010US	i3-4130	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0011US	i5-4570S	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced September 24, 2013, November 12, 2013, or January 21, 2014

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ThinkCentre® M73z (10BC) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BC000AUS	i5-4570S	4GBx1 1600MHz	720p	500GB 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win8 Pro64	09/24/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre® M73z (10BB)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BB0000US	i7-4770S	8GBx1 1600MHz	720p	1TB Hybrid	HD 4600	N2230	Media	None	S P	Monitor	USB	None	Win7 Pro64	09/24/13
10BB000FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000GUS	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000HUS	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB000JUS	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BB001EUS	i7-4770S	8GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB001FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB0021US	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0022US	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0023US	i3-4130	4GBx1 1600MHz	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

●*3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre® M73z (10BB) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BB000EUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13
10BB001DUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Frame	USB	G P	Win7 Pro64	09/24/13
10BB002VUS	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	Media	Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13

●●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2012

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ThinkCentre® M73z (10BB) - GMP (Win8/8.1)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BB001CUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	Switch	None	Frame	USB	G P	Win8 Pro64	09/24/13
10BB003VUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	Switch	None	Frame	USB	G P	Win8.1 Pro64	02/25/14

●●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **1600MHz DDR3L**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; *Maximum resolution:* 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz
DP dongle	None
Display	**20.0"** (508mm) **HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
Multi-touch	None
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
Controls	Side buttons for brightness up, brightness down, and power on/off
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V
Audio	High Definition (HD) Audio, Realtek ALC269VC
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Modem	None
IEEE 1394	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) *With Frame stand:* 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) *With Monitor stand:* 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 24, 2013 or February 25, 2014

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ThinkCentre®

Lenovo ThinkCentre M78
Small and Tower

Lenovo ThinkCentre M78 Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Small

Lenovo ThinkCentre M78 Small
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Tower

Lenovo ThinkCentre M78 Tower

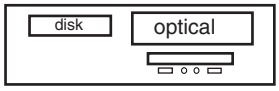
ThinkCentre® M78 Small (10BU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BU0000US	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0001US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0002US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0003US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0004US	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0005US	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0006US	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0007US	4x3	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0008US	4x3	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/22/13
10BU0009US	4x3	A6-6400B	2GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	None	Win7 Pro64 (DG)	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013, October 22, 2013, or December 10, 2013

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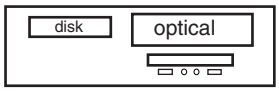
ThinkCentre® M78 Small (10BT) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	2nd Serial	Floor stand	DP to DP Cable	Preload	Ann date *(mm/dd/yy)*
10BT0004US	4x3	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	Media	HD 8570	None	None	Serial	Stand	Cable	Win7 Pro64 (DG)	10/01/13
10BT0005US	4x3	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13
10BT0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	N105	Media	HD 7540D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13

- *1-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• Business black color; metal case • 13.3" W X 15.0" D X 3.9" H • 339mm W X 381mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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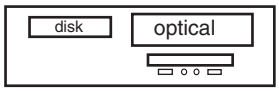
ThinkCentre® M78 Small (10BT)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BT0000US	4x3	A4-5300B	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	Switch	None	Stand	None	None	Win7 Pro64	10/01/13
10BT0008US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT0009US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000AUS	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000BUS	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BT000CUS	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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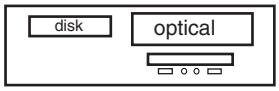
ThinkCentre® M78 Small (10BS) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	2nd Serial / Parallel	Floor stand	DP to DP Cable	Preload	Ann date *(mm/dd/yy)*
10BS0002US	4x3	A8-6500B	4GBx1	1TB 7200	DVD±RW	N2230	None	HD 8570	Switch	None	S P	Stand	Cable	Win8 Pro64	10/01/13

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon™ HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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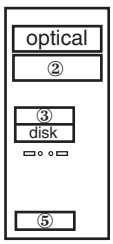
ThinkCentre® M78 Tower (10BR) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BR0000US	4x5	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BR0001US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BR0002US	4x5	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BR0004US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BR0005US	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BR0006US	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BR0007US	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BR0008US	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

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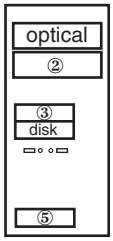
ThinkCentre® M78 Tower (10BQ)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BQ0000US	4x5	A4-5300B	4Gx1+2Gx3	500G Hybrid	DVD±RW	None	None	HD 7480D	Switch	None	None	None	Win7 Pro64	10/01/13
10BQ0004US	4x5	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0005US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0006US	4x5	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0008US	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0009US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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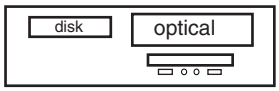
ThinkCentre® M78 Small (10BS) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BS0005US	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0007US	4x3	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	Stand	None	G P	Win7 Pro64	10/01/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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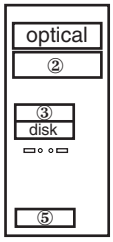
ThinkCentre® M78 Tower (10BQ) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date *(mm/dd/yy)*
10BQ000AUS	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ000BUS	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000CUS	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000DUS	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-6300B** (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon™ HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-6400B** (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-6500B** (quad-core, 3.5GHz, 4MB L2 cache),Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

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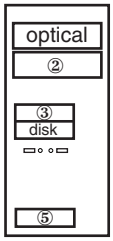
ThinkCentre® M78 Tower (10BN) - ES 5.2 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	2nd Serial / Parallel	DP to DP Cable	DP to DVI Dongle	Preload	Ann date *(mm/dd/yy)*
10BN0001US	4x5	A8-5500B	4Gx1+2Gx3	1TB 7200	DVD±RW	N2230	None	HD 8470	Switch	None	S P	Cable	Dongle	Win8 Pro64	10/01/13

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon™ HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	*Some:* DisplayPort to DisplayPort monitor cable
DP dongle	*Some:* DisplayPort to DVI-D cable
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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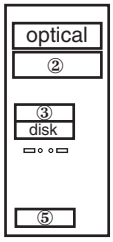
ThinkCentre® M78 Tower (10BN) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10BN0005US	4x5	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	None	G P	Win7 Pro64	10/01/13
10BN0006US	4x5	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13
10BN0007US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13

● Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	*Mainstream enterprise stability and manageability*
Processor	**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
Implementation	Processor in Socket FM2
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; *Maximum resolution:* 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP cable	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**AMD A75 Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 27.5 lb (12.5 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 1, 2013

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Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 5100/4865/2113/2114 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

Tower 2111/1766/1562/1565 support 75 watts max:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

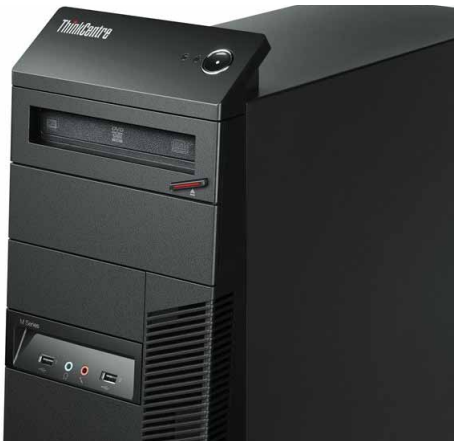
Lenovo ThinkCentre M82
Small and Tower

Lenovo ThinkCentre M82 Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M82 Small

Lenovo ThinkCentre M82 Small
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M82 Tower



Lenovo ThinkCentre M82 Tower

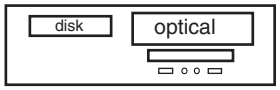
ThinkCentre® M82 Small (3306) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3306-A1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A2U	4x3	i5-3470	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A3U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A4U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Pro 64	06/19/12
3306-A5U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64	06/19/12
3306-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64	06/19/12
3306-D1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	07/10/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19 or July 10, 2012

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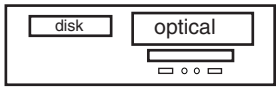
ThinkCentre® M82 Small (3306) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3306-B2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	07/10/12
3306-B3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Pro 64	07/10/12
3306-F1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10 or September 4, 2012

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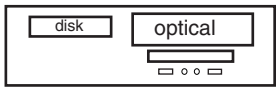
ThinkCentre® M82 Small (3306) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3306-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64	10/23/12
3306-F2U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64	10/23/12
3306-F3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win8 Pro64	10/23/12
3306-F4U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64	10/23/12
3306-G1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	10/23/12
3306-G2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	10/23/12
3306-G3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	10/23/12
3306-H1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64	03/05/13
3306-J1U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Win7 Pro64	03/12/13
3306-J2U	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64	03/12/13
3306-J3U	4x3	i5-3475S	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Win7 Pro64	03/12/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or March 5, 2013

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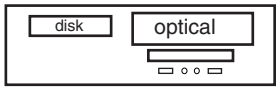
ThinkCentre® M82 Small (3395)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3395-A2U	4x3	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Pro 64	06/19/12
✂ 3395-C6U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Pro 64	06/19/12
✂ 3395-C7U	4x3	G850	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	None	Pro 32	06/19/12

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G850 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

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RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19, 2012
✂ US model(s) withdrawn effective November 2013

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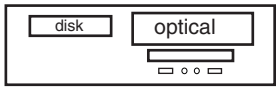
ThinkCentre® M82 Small (3395) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3395-C4U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3395-C5U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3395-D5U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 32	06/19/12
3395-D6U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 32	06/19/12
3395-G1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	07/10/12

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

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Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19 or July 10, 2012

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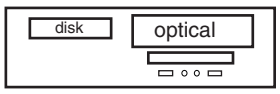
ThinkCentre® M82 Small (3395) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
✂ 3395-H7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	None	None	None	Win8 Pro64	10/23/12
3395-N1U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Win7 Pro64	10/23/12
✂ 3395-N2U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Win7 Pro64	10/23/12
3395-N3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	10/23/12
3395-AAU	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64	11/27/12
3395-R1U	4x3	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	None	Win7 Pro64	12/04/12
3395-R2U	4x3	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	None	Win7 Pro64	01/22/13
3395-CAU	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	03/05/13
3395-DAU	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64	03/12/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) **Intel Core i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics / 2000** / **2500 / 4000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, active Power Factor Correction
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 27, 2012, Dec 4, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12 2013

✂ US model(s) withdrawn effective January 2013 or November 2013

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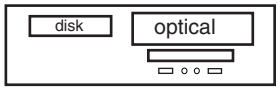
ThinkCentre® M82 Small (2756) - ENERGY STAR® 5.2 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 2756-B1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64	06/05/12
2756-B3U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64	06/05/12
2756-D1U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64	06/05/12
2756-D2U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Pro 64	06/05/12
2756-D7U	4x3	i5-3550	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64	06/05/12
2756-F1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 32	06/05/12
2756-F2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 32	06/05/12
2756-F3U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Pro 32	06/05/12
2756-F4U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Pro 64	06/05/12

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012
✂ US model withdrawn effective November 2012

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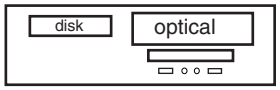
ThinkCentre® M82 Small (2756) - ES 5.2 (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
2756-J2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L4U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L5U	4x3	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L6U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L7U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	None	Win8 Pro64	10/23/12

● *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio
- Intel AppUp®
- AccuWeather
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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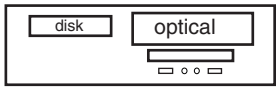
ThinkCentre® M82 Small (2756) - ES 5.2 (Win 8) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
2756-N3U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N4U	4x3	i3-2130	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N5U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
✂ 2756-N6U	4x3	G870	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N7U	4x3	G640	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N8U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N9U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64	10/23/12

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics / 2000** / **2500 / 4000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012
✂ US model(s) withdrawn effective November 2013

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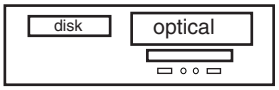
ThinkCentre® M82 Small (2929) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
2929-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/05/12
2929-B1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/19/12
2929-D1U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	08/14/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant

ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, June 19, or August 14, 2012

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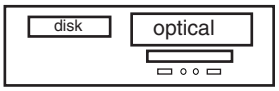
ThinkCentre® M82 Small (2929) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
2929-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win8 Pro64	10/23/12
2929-E1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win7 Pro64	10/23/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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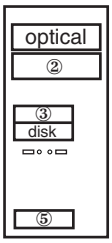
ThinkCentre® M82 Tower (3302) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3302-A1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3302-A2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3302-A3U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3302-A4U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	None	None	Pro 64	06/19/12
3302-A5U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	None	None	Pro 64	06/19/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19, 2012

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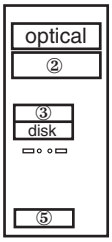
ThinkCentre® M82 Tower (3302) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3302-B2U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	07/10/12
3302-B3U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 64	07/10/12
3302-E1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10 or September 4, 2012

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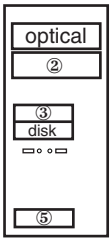
ThinkCentre® M82 Tower (3302) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3302-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-E2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-E3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-F1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-F2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-F3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-H1U	4x5	i5-3475S	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	03/12/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**IIntel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or March 12, 2013

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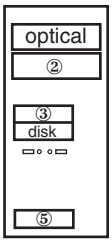
ThinkCentre® M82 Tower (3392)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3392-B6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
✂ 3392-C1U	4x5	i3-2120	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
✂ 3392-C3U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
✂ 3392-C7U	4x5	G630	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	06/19/12
✂ 3392-C8U	4x5	G850	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	06/19/12
✂ 3392-F3U	4x5	G630	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	07/10/12

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G630 Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G850 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19 or July 10, 2012
✂ US models withdrawn effective May 2013 or November 2013

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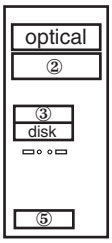
ThinkCentre® M82 Tower (3392) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
3392-D2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3392-C2U	4x5	i5-3550	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3392-C4U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 64	06/19/12
3392-C5U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3392-D7U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3392-D8U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 32	06/19/12
3392-D9U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12

● *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19, 2012

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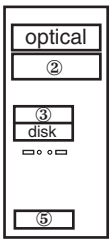
ThinkCentre® M82 Tower (3392) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3392-G3U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3392-K8U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	10/23/12
3392-K9U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-L1U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-R1U	4x5	i5-3475S	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	03/12/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton™™™ Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or March 12, 2013

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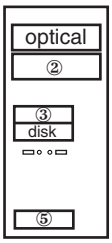
ThinkCentre® M82 Tower (3392) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
3392-K3U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
✂ 3392-K4U	4x5	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K5U	4x5	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K6U	4x5	i3-2130	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
✂ 3392-K7U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-N1U	4x5	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	12/04/12
3392-N2U	4x5	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	01/22/13

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G870 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts with variable speed fan, manual switch
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced October 23, 2012, December 4, 2012, or January 22, 2013

✂ US model(s) withdrawn effective November 2013

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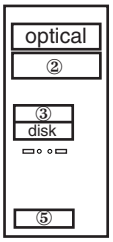
ThinkCentre® M82 Tower (2697) - ENERGY STAR® 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date *(mm/dd/yy)*
2697-E5U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Pro 32	06/05/12
✂ 2697-M1U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	Media	HD 4000	None	Switch	ES52	None	Pro 64	11/06/12

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or November 6, 2012
✂ US model withdrawn effective February 2013

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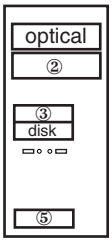
ThinkCentre® M82 Tower (2697) - ES 5.2 (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
2697-H1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J3U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J4U	4x5	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J5U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J6U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	None	Win8 Pro64	10/23/12
2697-L2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L3U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L4U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None	Win7 Pro64	10/23/12

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) **Intel Core i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel Core i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2000 / 2500** / **4000** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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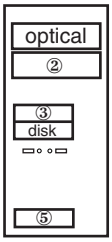
ThinkCentre® M82 Tower (2742) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
2742-A1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/05/12
2742-B1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/19/12
2742-D1U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	08/14/12

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced June 5, June 19, or August 14, 2012

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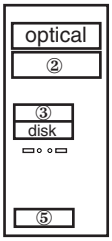
ThinkCentre® M82 Tower (2742) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
2742-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win8 Pro64	10/23/12
2742-E1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win7 Pro64	10/23/12

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q75 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in WWindows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max[4]	41N5618	*ann 09/26/06*
Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
180GB Solid State Drive	0B47308	*ann 01/29/13*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 2756/2929 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

Tower 2697/2742 support 75 watts max:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	*ann 08/14/12*
DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

Lenovo ThinkCentre M83 Mini Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Mini Tower
with optional WLAN and graphic card

Lenovo ThinkCentre M83 Small Pro
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M83 Small Pro
(inside view)

Optional 2.5" bay on
Lenovo ThinkCentre M83 Small Pro
* Come with optional 2.5" 2nd HDD

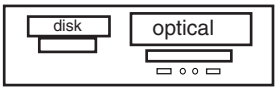
ThinkCentre® M83 SFF Pro (10AM) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	2nd disk	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AM0002US	3x4	i5-4670	4GBx1	1TB 7200		None		HD 4600	USB	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0003US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0004US	3x4	i7-4770	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0005US	3x4	i5-4570	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0006US	3x4	i7-4770	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0007US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM000AUS	3x4	i7-4770	4GBx1	1TB 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000BUS	3x4	i5-4570	4GBx1	128G SSD	1TB	None	Media	HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM0009US	3x4	i3-4130	4GBx1	500G 7200		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000CUS	3x4	i3-4130	4GBx1	500G Hybrid		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4400 or 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
2nd disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced July 30, 2013 or August 20, 2013

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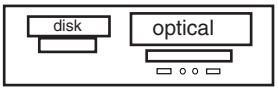
ThinkCentre M83 SFF Pro (10AM) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AM000JUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000KUS	3x4	i5-4570	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000LUS	3x4	i7-4770	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000MUS	3x4	i7-4770	8GBx1	1TB Hybrid	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000NUS	3x4	G3220	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG Win8.1	02/04/14
10AM000PUS	3x4	i3-4130	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000QUS	3x4	i5-4570	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000RUS	3x4	i5-4670	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AM000SUS	3x4	i7-4770	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 7200 rpm, 2.5" wide *Some:* SATA 6.0Gb/s, 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced February 04, 2014 or February 25, 2014

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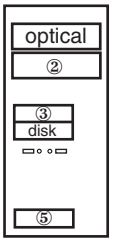
ThinkCentre M83 Mini Tower (10AL) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AL0008US	3x5	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL0009US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000AUS	3x5	i7-4770	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000BUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000CUS	3x5	i5-4670	4GBx2	1TB 7200	DVD±RW	None	None	HD 4600	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000DUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 8470	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000EUS	3x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	GT 620	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000FUS	3x5	i7-4770	4GBx2	500GB 7200	DVD±RW	None	None	HD 8570	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000GUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	08/20/13

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013 or August 20, 2013

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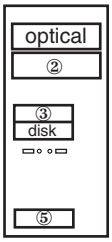
ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AL000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000RUS	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000SUS	3x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000TUS	3x5	i7-4770	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AL000VUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14

●Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4, 2014 or February 25, 2014

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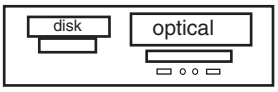
ThinkCentre M83 SFF Pro (10AN)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AN0006US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	Reader	HD 8470	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AN000GUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000HUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000JUS	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000KUS	3x4	i5-4570	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000XUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13
10AN000YUS	3x4	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13

● *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013, August 27, 2013, or October 22, 2013

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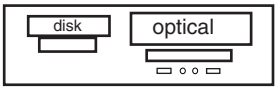
ThinkCentre M83 SFF Pro (10AH) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Preload	Ann date *(mm/dd/yy)*
10AH000JUS	3x4	i5-4570	4GBx1	1TB 7200	DVD		Intel 105	None	HD 8470	USB	None	Switch	Stand	ES52	Win7 Pro64	07/30/13
10AH0042US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	ES52	Win7 P64 DG Win8.1	02/04/14

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013 or February 4, 2014

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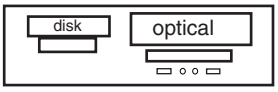
ThinkCentre M83 SFF Pro (10AH) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AH0015US	3x4	i5-4570	2GBx1	500G 7200	DVD	None	HD 4600	None	None	Switch	None	ES52	G P	Win7 Pro64	07/30/13
10AH0016US	3x4	i5-4570	4GBx1	500G 7200	DVD	None	HD 4600	USB	None	Switch	Stand	ES52	G P	Win7 Pro64 (DG)	07/30/13
10AH0017US	3x4	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	HD 8470	USB	None	Switch	Stand	ES52	G P	Win7 Pro64 (DG)	07/30/13
10AH001HUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES52	G P	Win7 Pro64 (DG)	08/20/13
10AH001JUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	Intel 105	HD 8470	USB	None	Switch	Stand	ES52	G P	Win7 Pro64 (DG)	08/20/13

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013 or August 20, 2013

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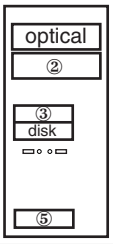
ThinkCentre M83 Mini Tower (10AK)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AK0004US	3x5	i5-4570	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0005US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0006US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK0007US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8	07/30/13
10AK000LUS	3x5	i3-4130	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	None	Win7 P64 DG Win8	10/22/13
10AK000MUS	3x5	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	None	Win7 P64 DG Win8	10/22/13
10AK000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14

●*3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013, October 22, 2013, or February 4, 2014

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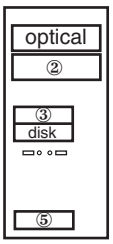
ThinkCentre M83 Mini Tower (10AG) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10AG0012US	3x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	ES52	None	Win7 P64 DG Win8.1	02/04/14

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4, 2013

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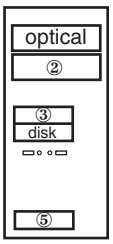
ThinkCentre M83 Mini Tower (10AG) - ES 5.2 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date *(mm/dd/yy)*
10AG000CUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	ES52	None	Win8 Pro64	07/30/13

- *3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)



Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013

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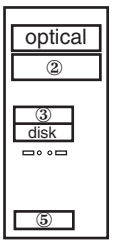
ThinkCentre M83 Mini Tower (10AG) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Key-board	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AG000PUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	HD 8470	USB	None	Switch	USB	ES52	G P	Win7 Pro64 (DG)	07/30/13
10AG000QUS	3x5	i5-4570	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES52	G P	Win7 Pro64	07/30/13
10AG000RUS	3x5	i5-4570	4GBx1	500GB 7200	DVD	None	HD 4600	USB	None	Switch	USB	ES52	G P	Win7 Pro64 (DG)	07/30/13
10AG000SUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	Finger	ES52	G P	Win7 Pro64 (DG)	08/20/13
10AG000TUS	3x5	i5-4570	4GBx1	1TB 7200	DVD±RW	Intel 105	HD 8470	USB	None	Switch	USB	ES52	G P	Win7 Pro64 (DG)	08/20/13
10AG000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES52	G P	Win7 Pro64 (DG)	09/10/13

● *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q85 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo USB Fingerprint Keyboard (USB connector)
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 30, 2013, August 20, 2013, or September 10, 2013

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ThinkCentre®

Lenovo ThinkCentre M92/M92p Tiny
with Optional Serial Port or DisplayPort

Lenovo ThinkCentre M92/M92p Tiny
with Floor Stand

Lenovo ThinkCentre M92/M92p Small

Lenovo ThinkCentre M92/M92p Tiny
with VESA Mount

Lenovo ThinkCentre M92/M92p Tower

Lenovo ThinkCentre M92/M92p Tiny
with External Optical Box

ThinkCentre® M92 Tiny (3229) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3229-A1U	G460	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	07/10/12
✂ 3229-A2U	G465	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	01/08/13
3229-A3U	G470	2GBx1	8G SSD	None	Intel HD	None	Serial	None	None	None	ES52	None	G P	Emb 32	07/09/13

●*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Celeron® G460 Processor** (**1 core / 2 threads**, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G465 Processor** (**1 core / 2 threads**, 1.9GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Celeron G470 Processor** (**1 core / 2 threads**, 2.0GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), *System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	None
Mouse	None
Floor Stand	None
VESA mount	None
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10, 2012, January 8, 2013, or July 9, 2013
✂ US model(s) withdrawn effective November 2013

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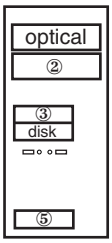
ThinkCentre® M92 Tower (3208)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3208-A8U	4x5	i3-2130	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None	None	Pro 64	06/05/12
✂ 3208-A9U	4x5	i3-2120	2GBx1	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None	None	Pro 32	06/05/12
✂ 3208-C5U	4x5	i3-3240	4GBx2	1TB 7200	Bay	DVD±RW	Media	HD 7450	Intel 2230 + BT	Switch	ES52	None	None	Pro 64	11/06/12

● *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or November 6, 2012
✂ US model(s) withdrawn effective February 2013 or November 2013

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ThinkCentre® M92p Tiny (2121) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2121-A1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	DP	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A3U	i5-3470T	4GBx1	320G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A4U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Serial	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A6U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
2121-A7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
✂ 2121-B1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	None	Pro 64	07/10/12
✂ 2121-C8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	DP	None	None	Mount	ES52	vPro	None	Pro 64	08/14/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10 or August 14, 2012
✂ US models withdrawn effective September or November 2012

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ThinkCentre® M92p Tiny (2121) - TopSeller (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2121-B2U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
✂ 2121-B3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
2121-F3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10, 2012 or March 5, 2013
✂ US model withdrawn effective October 2012

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ThinkCentre® M92p Tiny (2121) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
2121-A9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C4U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C5U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-C9U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win8 Pro64	10/23/12
2121-D3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D4U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	DP	None	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-D6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	10/23/12
✂ 2121-D7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	10/23/12
✂ 2121-D8U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	DP	None	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2121-E1U	i5-3470T	4GBx1	180G SSD	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E2U	i5-3470T	4GBx1	180G SSD	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E3U	i5-3470T	4GBx1	500G 5400	None	HD 2500	Intel 105	None	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E4U	i5-3470T	4GBx1	500G 5400	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E5U	i5-3470T	4GBx1	500G 5400	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	ES52	vPro	None	Win7 Pro64	11/20/12
2121-E9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	ES52	vPro	None	Win7 Pro64	12/11/12
2121-F1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	None	Win7 Pro64	12/11/12
2121-F2U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 105	Serial	None	None	Mount	ES52	vPro	None	Win7 Pro64	12/25/12

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo® Support
- Lenovo Companion
- Norton™ Studio
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, November 20, December 11, or December 25, 2012
✂ US models withdrawn effective November 2012

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ThinkCentre® M92p Tiny (3243)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3243-A3U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *1-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	None
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced June 5, 2012

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ThinkCentre® M92p Tiny (3238)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3238-A1U	i5-3470T	4GBx1	500G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/05/12
3238-B5U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	None	None	ES52	vPro	None	Pro 64	06/05/12
3238-B6U	i5-3470T	4GBx1	320G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Pro 64	06/05/12
3238-B7U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	None	Pro 32	06/05/12
3238-B8U	i5-3470T	2GBx1	320G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	None	Pro 32	06/05/12
3238-D9U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	USB	None	Stand	Mount	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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ThinkCentre® M92p Tiny (3238) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Security Cable	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3238-F5U	i5-3470T	4GBx1	500G 7200	None	Intel 2230 + BT	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F6U	i5-3470T	4GBx1	500G 7200	None	Intel 105	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F7U	i5-3470T	4GBx1	500G 7200	None	Intel 105	None	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F8U	i5-3470T	4GBx1	500G 7200	DVD±RW	Intel 2230 + BT	None	None	None	None	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-F9U	i5-3470T	4GBx1	500G 7200	None	Intel 2230 + BT	None	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
✂ 3238-K3U	i5-3470T	4GBx1	500G 7200	None	None	DP	None	None	Stand	Mount	ES52	vPro	None	Pro 64	06/19/12
3238-E5U	i5-3470T	4GBx1	500G 7200	None	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-E8U	i5-3470T	4GBx1	320G 7200	DVD±RW	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-E9U	i5-3470T	4GBx1	320G 7200	None	None	None	None	None	None	Mount	ES52	vPro	None	Pro 64	07/10/12
3238-F1U	i5-3470T	4GBx1	320G 7200	None	None	None	None	None	Stand	None	ES52	vPro	None	Pro 64	07/10/12
3238-F2U	i5-3470T	2GBx1	320G 7200	None	None	None	None	None	Stand	None	ES52	vPro	None	Pro 64	07/10/12
✂ 3238-P6U	i5-3470T	4GBx2	180G SSD	DVD±RW	Intel 2230 + BT	None	Switch	Cable	None	Mount	ES52	vPro	None	Pro 64	11/06/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 19, July 10, or November 6, 2012
✂ US models withdrawn effective October 2012 or February 2013

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ThinkCentre® M92p Tiny (3238) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3238-K4U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	None	Emb 32	07/10/12
3238-R6U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 105	DP	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13
3238-R7U	i5-3470T	2GBx1	8G SSD	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	ES52	vPro	None	Emb 32	03/05/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10, 2012 or March 5, 2013

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ThinkCentre® M92p Tiny (3238) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3238-K1U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-K2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	USB	vPro	None	Win8 Pro64	10/23/12
3238-L1U	i5-3470T	4GBx1	320G 7200	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-L2U	i5-3470T	4GBx1	320G 7200	None	HD 2500	None	DP	None	None	Mount	USB	vPro	None	Win8 Pro64	10/23/12
3238-L4U	i5-3470T	4GBx1	320G 5400	None	HD 2500	None	None	None	None	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-L5U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	Stand	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-L6U	i5-3470T	2GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-L7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	None	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-M3U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M4U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M5U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	None	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M6U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	USB	vPro	None	Win7 Pro64	10/23/12
3238-M7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	None	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M8U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-M9U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	USB	vPro	None	Win7 Pro64	10/23/12
3238-Q2U	i5-3470T	4GBx1	180G SSD	None	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win7 Pro64	11/20/12
3238-Q3U	i5-3470T	4GBx1	180G SSD	DVD±RW	HD 2500	Intel 105	DP	None	None	Mount	USB	vPro	None	Win7 Pro64	11/20/12
3238-S9U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 105	None	None	None	Mount	2.4G	vPro	None	Win8 Pro64	05/28/13

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
External optical	*Some:* Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Floor Stand	*Some:* System floor stand for vertical orientation
VESA mount	*Some:* Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced October 23, 2012, November 20, 2012, or May 28, 2013

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ThinkCentre® M92p Tiny (3237) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3237-A1U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	None
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	● Business black color; metal case ● 7.1" W X 7.2" D X 1.4" H ● 179mm W X 182mm D X 34.5mm H ● 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced June 5, 2012

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ThinkCentre® M92p Tiny (3237) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3237-A3U	i5-3470T	2GBx1	8G SSD	None	HD 2500	None	Serial	None	None	None	ES52	vPro	G P	Emb 32	07/10/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	None
Mouse	None
Floor Stand	None
VESA mount	None
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7
Embedded 32

Preloaded applications (only some listed)

- Adobe® Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint .print Client
- TightVNC Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced July 10, 2012

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ThinkCentre® M92p Tiny (3237) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3237-A4U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P	Win8 Pro64	10/23/12
3237-A5U	i5-3470T	4GBx1	320G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	G P	Win7 Pro64	10/23/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470T Processor** (**2 cores / 4 threads**, 2.9GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional DisplayPort, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, one USB 2.0 (external ODD occupies USB 2.0 port on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / DisplayPort on selected models)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	None
VESA mount	Supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU
Machine	• Business black color; metal case • 7.1" W X 7.2" D X 1.4" H • 179mm W X 182mm D X 34.5mm H • 9.1 lb (4.1 kg) in maximum configuration (including External Optical Box)
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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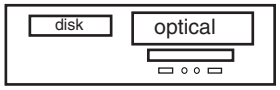
ThinkCentre® M92p Small (2988) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2988-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A3U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A9U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 64	07/10/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or July 10, 2012

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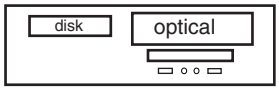
ThinkCentre® M92p Small (2988) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2988-A4U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A5U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A8U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **AMD Radeon™ HD 7350**, DirectX® 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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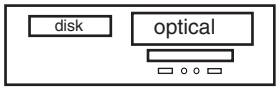
ThinkCentre® M92p Small (2988) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
2988-B2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-C6U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-B4U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-C8U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
2988-D9U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-E1U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-E2U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
2988-F2U	4x3	i7-3770	4GBx2	1TB 7200	DVD±RW	None	HD 7450	Intel 6205	None	Stand	ES52	vPro	None	Win7 Pro64	03/12/13
2988-F3U	4x3	i5-3475S	4GBx2	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	03/12/13

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
PCIe WLAN	*Some:* 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or March 3, 2013

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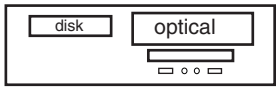
ThinkCentre® M92p Small (3209)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3209-A2U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
✂ 3209-A4U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
3209-C5U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 32	06/05/12
3209-C8U	4x3	i5-3550	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
3209-E4U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32	06/05/12
3209-E5U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32	06/05/12
3209-E6U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 32	06/05/12
3209-E7U	4x3	i5-3470	2GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
3209-D7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	07/10/12
3209-D9U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	07/10/12
3209-F8U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Pro 64	07/10/12
3209-F9U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Pro 64	07/10/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or July 10, 2012
✂ US model withdrawn effective September 2012

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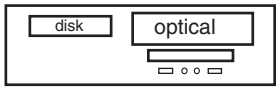
ThinkCentre® M92p Small (3209) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3209-D4U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12
3209-D5U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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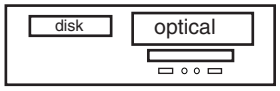
ThinkCentre® M92p Small (3209) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3209-K2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-K9U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-L1U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12
3209-L2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win8 Pro64	10/23/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio
- Intel AppUp®
- AccuWeather
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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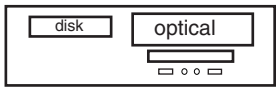
ThinkCentre® M92p Small (3209) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3209-L3U	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L4U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L5U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L7U	4x3	i5-3470	2GBx1	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-L8U	4x3	i5-3570	4GBx1	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M1U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M2U	4x3	i7-3770	4GBx1	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M3U	4x3	i7-3770	4GBx1	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M4U	4x3	i5-3570	4GBx1	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12
3209-M5U	4x3	i5-3570	4GBx1	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	ES52	vPro	None	Win7 Pro64	10/23/12

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** / **4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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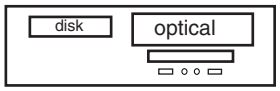
ThinkCentre® M92p Small (3209) - Windows 8 - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3209-R5U	4x3	i5-3475S	4GBx2	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	vPro	None	Win7 Pro64	03/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**AMD Radeon™ HD 7450**, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced March 12, 2013

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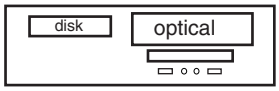
ThinkCentre® M92p Small (3227) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3227-A1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	G P	Pro 64	06/05/12
3227-A2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Pro 64	06/19/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or June 19, 2012

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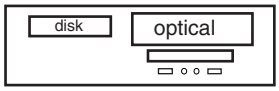
ThinkCentre® M92p Small (3227) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3227-A3U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Win8 Pro64	10/23/12
3227-A4U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	G P	Win7 Pro64	10/23/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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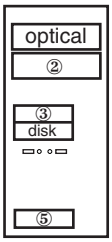
ThinkCentre® M92p Tower (2992) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2992-A2U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A3U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A4U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A5U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A6U	4x5	i5-3550	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012

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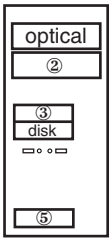
ThinkCentre® M92p Tower (2992) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
2992-A7U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A8U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-A9U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-B1U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Pro 64	06/05/12
2992-B2U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	07/10/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or July 10, 2012

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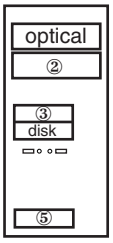
ThinkCentre® M92p Tower (2992) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
2992-B5U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-C9U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-D1U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-D2U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
2992-E3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-E4U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-E5U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
2992-F7U	4x5	i5-3475S	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	03/12/13
2992-F8U	4x5	i5-3475S	4GBx2	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	03/12/13

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500 / 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012 or March 12, 2013

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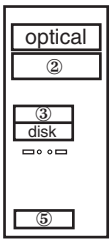
ThinkCentre® M92p Tower (3212)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3212-A3U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-A9U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 32	06/05/12
✂ 3212-C1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5, 2012
✂ US model withdrawn effective September 2012

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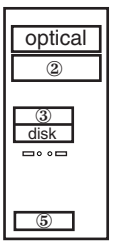
ThinkCentre® M92p Tower (3212) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3212-C6U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-C7U	4x5	i5-3550	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-C9U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-D1U	4x5	i7-3770	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-E4U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E5U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E6U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 32	06/05/12
3212-E7U	4x5	i5-3470	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	06/05/12
3212-K1U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	06/19/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550 Processor** (**4 cores / 4 threads**, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Genuine Windows® 7 Professional 32
Some: Genuine Windows 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or June 19, 2012

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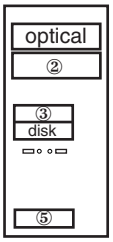
ThinkCentre® M92p Tower (3212) - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Win7 preload	Ann date *(mm/dd/yy)*
3212-D8U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-D9U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-E2U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-F7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Pro 64	07/10/12
3212-F8U	4x5	i5-3570	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Pro 64	07/10/12
✂ 3212-M2U	4x5	i7-3770	4GBx2	1TB 7200	Bay	DVD±RW	Media	HD 4000	Intel 2230 + BT	Switch	ES52	vPro	None	Pro 64	11/06/12

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced July 10 or November 6, 2012
✂ US model withdrawn effective February 2013

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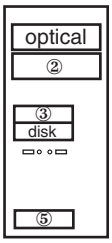
ThinkCentre® M92p Tower (3212) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3212-H1U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K4U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win8 Pro64	10/23/12
3212-K5U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win8 Pro64	10/23/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 8 Pro 64-bit

Preloaded applications (only some listed)

- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio
- Intel AppUp®
- AccuWeather
- PC Device Stage
- Evernote®
- Skype™
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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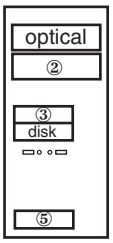
ThinkCentre® M92p Tower (3212) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3212-K7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-K8U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-K9U	4x5	i5-3570	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L1U	4x5	i5-3570	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L2U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L3U	4x5	i5-3570	4GBx1	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L4U	4x5	i5-3470	2GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L5U	4x5	i7-3770	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L6U	4x5	i7-3770	4GBx1	250G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L7U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 7350	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L8U	4x5	i5-3470	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12
3212-L9U	4x5	i7-3770	4GBx1	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	vPro	None	Win7 Pro64	10/23/12

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3570 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** / **4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors *Some:* **AMD Radeon HD 7450**, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
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- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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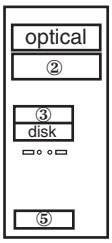
ThinkCentre® M92p Tower (3212) - Windows 8 - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
3212-N4U	4x5	i5-3475S	4GBx1	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	None	Win7 Pro64	03/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3475S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB devices), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model announced March 12, 2013

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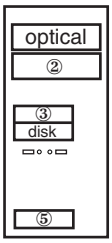
ThinkCentre® M92p Tower (3228) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Win7 preload	Ann date *(mm/dd/yy)*
3228-A1U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	vPro	G P	Pro 64	06/05/12
3228-A2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	G P	Pro 64	06/19/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** or **Intel HD Graphics 4000** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal • Toolless disk, optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced June 5 or Juen 19, 2012

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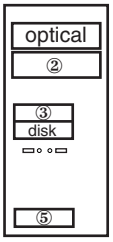
ThinkCentre® M92p Tower (3228) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
3228-A3U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	G P	Win8 Pro64	10/23/12
3228-A4U	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	G P	Win7 Pro64	10/23/12

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-3470 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector
eSATA port	None
Media reader	None
Chipset	**Intel Q77 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 8.0 (Intel AMT 8.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal • Toolless disk, optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

- Windows 8 models

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton™ Studio
- AccuWeather
- Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models

- ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions)
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M92 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced October 23, 2012

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Memory

Tiny 3234/3243/3238/3237 use notebook memory:

2GB PC3-12800 DDR3 SODIMM	0A65722	*ann 06/05/12*
4GB PC3-12800 DDR3 SODIMM	0A65723	*ann 06/05/12*
8GB PC3-12800 DDR3 SODIMM	0A65724	*ann 06/05/12*

Small 3207/2988/3209/3227, and Tower 3208/2992/3212/3228 use desktop memory:

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at **www.lenovo.com/support/desktopmemorycompatibility**

Optical

Small and Tower support:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max[4]	41N5618	*ann 09/26/06*
Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*

Storage and removable storage

Small and Tower support:

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
180GB Solid State Drive	0B47308	*ann 01/29/13*

All:

USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 3207/2988/3209/3227 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

Tower 3208/2992/3212/3228 support:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Speakers M0520 (black)	57Y6360	*ann 02/08/11*
Lenovo Speakers M0520 (red)	57Y6361	*ann 02/08/11*
Lenovo Headset P550	55Y2065	
Lenovo Headset P950 (black)	57Y6605	*ann 02/08/11*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Under Desk Mount

Tiny support:

ThinkCentre Tiny Under Desk Mount Bracket	0B47097	*ann 08/07/12*

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	*ann 08/14/12*
DisplayPort™ to Single-link DVI-D Cable	45J7915	*ann 08/05/08*
DispalyPort to Dual-DisplayPort Monitor Cable	0B47092	*ann 06/05/12*
DisplayPort to VGA Monitor Cable	57Y4393	*ann 08/04/09*
DisplayPort to DisplayPort Monitor Cable	0A36537	*ann 09/13/11*
Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

Lenovo ThinkCentre M93/M93p Tiny
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Tiny
with optional WLAN

Lenovo ThinkCentre M93/M93p Tiny
with optional external I/O box

Lenovo ThinkCentre M93/M93p Tiny
with optional external optical box

Lenovo ThinkCentre M93/M93p Tiny
(inside view)

Lenovo ThinkCentre M93/M93p Tiny

ThinkCentre M93/M93p Tiny, Small Pro, Mini Tower - II

ThinkCentre®

Lenovo ThinkCentre M93/M93p Mini Tower
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Mini Tower
with optional WLAN and graphic card

Lenovo ThinkCentre M93/M93p Small Pro
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M93/M93p Small Pro
(inside view)

Optional 2.5" bay on
Lenovo ThinkCentre M93/M93p Small Pro
* Come with optional 2.5" 2nd HDD

ThinkCentre® M93p Tiny (10AB) - TopSeller I

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000DUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 105	2nd DP	None	None	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000EUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000FUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000GUS	i7-4765T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000HUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000JUS	i5-4570T	4GBx2	180G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000KUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000QUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000RUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013

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ThinkCentre® M93p Tiny (10AB) - TopSeller II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB000SUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000TUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000UUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	None	None	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0010US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0011US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0012US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0013US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0014US	i5-4570T	4GBx1	500G 7200	I/O box	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0015US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0016US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	Serial	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB002AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	12/10/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013 or December 10, 2013

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ThinkCentre® M93p Tiny (10AB) - TopSeller III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AB002TUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002VUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 bn	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002WUS	i7-4765T	8GBx1	128G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002UUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	01/14/14
10AB002XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB002YUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14
10AB0030US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	7260 ac	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	02/25/14

● *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	● Tiny (1L), business black color; metal case ● *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H ● *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H ● *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration ● *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H ● *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H ● *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 14 or February 25, 2014

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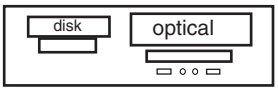
ThinkCentre® M93p SFF Pro (10A9) - TopSeller - I

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000HUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000JUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	HD 4600	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000KUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	GT 620	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000LUS	4x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	GT 620	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000MUS	4x4	i7-4770	4GBx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90014US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	105	GT 620	USB	Serial	Parallel	None	Stand	vPro	Win7 Pro64 (DG)	08/13/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, works along with Intel HD Graphics to support up to five independent monitors
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 2: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or August 13, 2013

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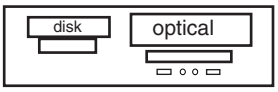
ThinkCentre® M93p SFF Pro (10A9) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9000NUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000PUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000QUS	4x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000RUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000SUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90016US	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A90017US	4x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A9002CUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	Stand	vPro	Win7 Pro64 (DG)	12/10/13

● *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 2: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 18, 2013, October 8, 2013, or December 10, 2013

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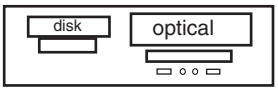
ThinkCentre® M93p SFF Pro (10A9) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A9002TUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002UUS	4x4	i7-4770	8GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002VUS	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002WUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/11/14

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	● SFF Pro (12.9L), business black color; metal case ● *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm ● 17.20 lb (7.8 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 2: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced February 4 or 11, 2014

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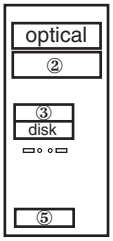
ThinkCentre® M93p Mini Tower (10A7) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A7000BUS	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000CUS	4x5	i5-4670	4Gx1	500G Hybrid	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000DUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 8570	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000EUS	4x5	i7-4770	4Gx2	500G Hybrid	DVD±RW	Media	HD 8570	None	Serial	Parallel	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000FUS	4x5	i7-4770	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000GUS	4x5	i5-4670	4Gx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000QUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	GT 620	None	None	None	None	vPro	None	Win7 Pro64 (DG)	07/09/13
10A7000SUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000TUS	4x5	i5-4570	4Gx1	128G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000UUS	4x5	i7-4770	8Gx1	180G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670 Processor** (**4 cores / 4 threads**, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz, *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 18, 2013, July 9, 2013, or October 8, 2013

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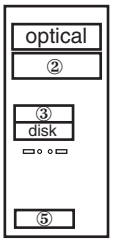
ThinkCentre® M93p Mini Tower (10A7) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A70028US	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14
10A70029US	4x5	i7-4770	8Gx1	500G 7200	DVD±RW	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14
10A7002AUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	● Mini Tower (25L), business black color, metal case ● *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm ● 24.69 lb (11.20 kg) in maximum configuration ● Toolless cover removal, adapter retention ● Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

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

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced February 4, 2014

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ThinkCentre® M93p Tiny (10AA) - 1 Year Depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10AA0023US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AA0024US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AA0025US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 6235	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *A depot repair service 1-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
External optical	None
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**1-years** - depot repair service / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013

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ThinkCentre® M93p Tiny (10AA)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AA0027US	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA0028US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA002BUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA002AUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA0029US	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA002CUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 Pro64 (DG)	09/10/13
10AA003PUS	i7-4765T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 Pro64 (DG)	11/12/13
10AA003QUS	i5-4570T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 Pro64 (DG)	11/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced September 10, 2013 or November 12, 2013

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ThinkCentre® M93p Tiny (10AA) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AA001YUS	i5-4570T	2GBx1	320G 5400	None	HD 4600	Intel 105	None	Switch	Stand	None	vPro	G P	Win7 Pro64	07/02/13
10AA0020US	i5-4570T	4GBx1	500G 5400	DVD	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA0021US	i7-4765T	4GBx1	128G SSD	DVD	HD 4600	Intel 2230	2nd DP	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA0022US	i5-4570T	4GBx1	500G 5400	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro	G P	Win7 Pro64 (DG)	07/02/13
10AA002RUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro	G P	Win7 Pro64 (DG)	10/08/13
10AA002SUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro	G P	Win7 Pro64 (DG)	10/08/13
10AA002UUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	HDMI	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10AA002VUS	i7-4765T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10AA002WUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	vPro	G P	Win7 Pro64 (DG)	11/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570T Processor** (**2 cores / 4 threads**, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4765T Processor** (**4 cores / 8 threads**, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; 1920x1200 (HDMI)@60Hz
DP dongle	None
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 5400 rpm *Some:* SATA 6.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
External optical	*Some:* external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0 *Some:* external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar
eSATA port	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	*Some:* Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Audio	High Definition (HD) Audio, Realtek® ALC283 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU
Machine	• Tiny (1L), business black color; metal case • *M93/p Tiny only:* 7.0" W X 7.2" D X 1.4" H • *M93/p Tiny only:* 179mm W X 182mm D X 34.5mm H • *M93/p Tiny only:* 2.9 lb (1.3 kg), weight may vary by configuration • *With VESA mount & optical box:* 7.2" W X 7.2" D X 2.55" H • *With VESA mount & optical box:* 184mm W X 182mm D X 65mm H • *With VESA mount & optical box:* 5.1 lb (2.3 kg), weight may vary by configuration
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 2, 2013, October 8, 2013, or November 12, 2013

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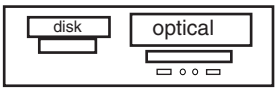
ThinkCentre® M93p SFF Pro (10A8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date *(mm/dd/yy)*
10A8000TUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Intel 105	Media	GT 620	None	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000UUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000VUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000WUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000XUS	4x4	i5-4570	8GBx1	1TB 7200	DVD±RW	None	Intel 105	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000YUS	4x4	i5-4570	4GBx1	250G 7200	DVD±RW	None	None	None	HD 4600	None	None	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A80037US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A80038US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, slim, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 2: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or February 4, 2014

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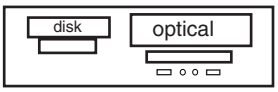
ThinkCentre® M93p SFF Pro (10A8) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A8001GUS	4x4	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	None	vPro	G P	Win7 Pro64	06/18/13
10A8001HUS	4x4	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8001JUS	4x4	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8002CUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A8002DUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, works along with Intel HD Graphics to support up to five independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	*Some:* System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• SFF Pro (12.9L), business black color; metal case • *(WxDxH)* 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 2: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or November 12, 2013

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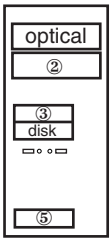
ThinkCentre® M93p Mini Tower (10A6)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10A6000UUS	4x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Media	GT 620	None	Serial	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6000VUS	4x5	i7-4770	4GBx2	500G 7200	DVD±RW	None	Media	HD 8570	None	Serial	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6000WUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6002NUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14
10A6002PUS	4x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon HD 8570**, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; *Max resolution:* 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz *Some:* **NVIDIA® Geforce® GT 620**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz *Some:* **AMD Radeon™ HD 7450**, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Max resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	*Some:* 29-in-1 media reader, internal USB 2.0
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 18, 2013 or February 4, 2014

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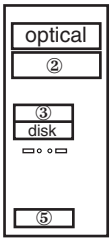
ThinkCentre® M93p Mini Tower (10A6) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10A60017US	4x5	i5-4570	2GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	06/18/13
10A60018US	4x5	i7-4770	4GBx1	1TB 7200	DVD±RW	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A60019US	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A6001DUS	4x5	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001EUS	4x5	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001FUS	4x5	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	08/20/13
10A6001SUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A6001TUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro	G P	Win7 Pro64 (DG)	11/12/13

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-4570 Processor** (**4 cores / 4 threads**, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	32GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz *Some:* **AMD Radeon™ HD 8470**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, *Max resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz, works along with Intel HD Graphics to support up to five independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	**Intel Q87 Express Chipset**
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	• Mini Tower (25L), business black color, metal case • *(WxDxH)* 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm • 24.69 lb (11.20 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk, optical drive removal
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013, August 20, 2013, or November 12, 2013

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ThinkCentre®

ThinkCentre M93z (Multi-touch) with Frame Stand and optional wireless keyboard and mouse

ThinkCentre M93z (Non-touch) with Monitor Standand optional wireless keyboard and mouse

ThinkCentre M93z with Monitor Stand with optional PS/2 and Serial ports

ThinkCentre M93z with Frame Stand with optional PS/2 and Serial ports

Frame Stand
(Adjustable between 10° and 45°)

Monitor Stand
(Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait)

ThinkCentre M93z (10AF) - TopSeller (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000JUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AF) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF0003US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0004US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AF0005US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0006US	i5-4670S	4GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0007US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF0008US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AF000KUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13
10AF000LUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	09/10/13

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or September 10, 2013

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ThinkCentre M93z (10AF) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AF000FUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000HUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000VUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	None	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF000WUS	i7-4770S	8GBx1	2.0M	256G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF0010US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AF0011US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20 or November 12, 2013 or January 21, 2014

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001HUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	08/13/13
10AD001MUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 13, 2013 or August 20, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0001US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0003US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AD0004US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0005US	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD0008US	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG	07/09/13
10AD0009US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AD001GUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	08/13/13

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AD001LUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AD0020US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	None	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AD0021US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	None	USB	None	None	Win7 Pro64 DG	11/12/13
10AD0022US	i5-4570S	4GBx1	2.0M	256G SSD	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013 or November 12, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0024US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AD0025US	i7-4770S	4GBx1	2.0M	500G Hybrid	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/21/14
10AD0026US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	01/21/14
10AD0027US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	01/21/14

●*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

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

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0002US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	None	None	None	Monitor	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD0006US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Frame	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD0007US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win8 Pro64	07/09/13
10AD001DUS	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001EUS	i5-4670S	4GBx1	2.0M	1TB 7200	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001FUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	07/23/13
10AD001NUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win8 Pro64	08/20/13

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400** or **4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013, July 23, 2013, August 20, 2013

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ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8.1

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AD0028US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro	None	Win8.1 Pro64	01/21/14
10AD0029US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8.1 Pro64	01/21/14

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400** or **4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced January 21, 2014

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ThinkCentre M93z (10AE)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AE000FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AE000GUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AE000HUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AE000YUS	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG	07/09/13

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013

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ThinkCentre M93z (10AE) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AE001GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AE001HUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AE001JUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13

● *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **HD Graphics 4400** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AE) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AE001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/09/13
10AE001DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AE0022US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Non-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm • 21.3 lb (9.68 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 25.5 lb (11.58 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2014

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ThinkCentre M93z (10AE) - GMP (Windows 8/8.1)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AE001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8 Pro64	07/09/13
10AE0023US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Non-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm ● 21.3 lb (9.68 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Non-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 25.5 lb (11.58 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2014

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ThinkCentre M93z (10AC) - Multi-touch

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC000GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AC000HUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	07/09/13
10AC000JUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	07/09/13
10AC0011US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG	07/09/13

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013

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ThinkCentre M93z (10AC) - Multi-touch - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001LUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with1333MHz memory controller
Graphics	**Intel HD Graphics** or **HD Graphics 4400** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Max resolution:* 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 20, 2013

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ThinkCentre M93z (10AC) - Multi-touch (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global	Preload	Ann date *(mm/dd/yy)*
10AC0010US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win8 Pro64	07/09/13
10AC001HUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8 Pro64	08/13/13

●*3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

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ThinkCentre M93z (10AC) - Multi-touch (GMP)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AC001GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/09/13
10AC001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AC002CUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* • *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* • *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2104

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ThinkCentre M93z (10AC) - Multi-touch (GMP) - Windows 8/8.1

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[9]	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date *(mm/dd/yy)*
10AC001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8 Pro64	07/09/13
10AC002DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

- *Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty*
- *3-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; *Maximum resolution:* 3840x2160 (DisplayPort)@60Hz
Display	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector
Light sensor	Optional ambient light sensor
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel Q87 Express Chipset**
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
ExpressCard	None
mSATA	One mSATA slot
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Machine	● Business black color ● Toolless back cover, stand removal ● Toolless disk, optical drive, memory removal ● Support VESA mount (100mm) *Multi-touch model(s) with frame stand:* ● *(WxDxH)* 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm ● 24.7 lb (11.22 kg) in maximum configuration ● Adjustable stand (between 10° and 45°) *Multi-touch model(s) with monitor stand:* ● *(WxDxH)* 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm ● 28.9 lb (13.12 kg) in maximum configuration ● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°; Pivot: Landscape / Portrait
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows® 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- *Chassis intrusion switch on selected model(s)*

EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced July 9, 2013 or February 25, 2104

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Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

Handle

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

ThinkCentre® Edge 62z (2117) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Camera	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Stand type	Global	Preload	Ann date *(mm/dd/yy)*
2117-BBU	i3-3220	4GBx1 1600MHz	720p	500G 7200	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EKU	G2020	2GBx1 1600MHz	720p	500G 7200	DVD±RW	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-ELU	G2020	2GBx1 1600MHz	720p	500G 7200	None	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EWU	i3-3240	2GBx1 1600MHz	720p	320G 5400	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	05/14/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Essential All-In-One PC for small/medium businesses*
Processor	**Intel® Pentium® G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-3240 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	8GB max, **PC3-12800 1600MHz DDR3**, one 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses system memory
Display	**18.5"** (470mm) **HD (1366x768) TFT color**, CCFL backlight, 200 nits, 16:9 aspect ratio, 600:1 dynamic contrast ratio
Multi-touch	None
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus
Controls	Front facing button for power on/off, side buttons for brightness up and brightness down
Disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide
Optical	*Some:* DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Media reader	None
Chipset	**Intel H61 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), serial (9-pin)
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express® Mini Card slot
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1
Bluetooth	None
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VC
Audio	High Definition (HD) Audio, Realtek ALC269Q
Speaker	Two internal stereo speakers (2watt x 2)
Intel AMT	None
Security chip	None
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	120 watts, autosensing, 87% PSU
Machine	*Model(s) with Frame stand:* ● Business black color ● 18.5" W X 2.3" D X 14.5" H ● 469.7mm W X 59.5mm D X 368.4mm H (including stand) ● 11 lb (5 kg) in maximum configuration ● Tilt: 10°-20° back; no lift; no swivel; adjustable stand ● Supports VESA mount (100mm)
Limited Warranty	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system[20]

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Lenovo® Message Center Plus

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Lenovo Cloud Storage by SugarSync
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Evernote®
- Symantec™ VIP
- Intel AppUp®
- Nitro PDF Pro
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge62Z sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced March 26 or May 14, 2013

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ThinkCentre®

Lenovo ThinkCentre Edge 72 Small and
Lenovo ThinkCentre Edge 72 Tower

Lenovo ThinkCentre Edge 72 Small
with Dual Lenovo ThinkVision Monitors

Lenovo ThinkCentre Edge 72 Small

Lenovo ThinkCentre Edge 72 Small

Lenovo ThinkCentre Edge 72 Tower

Lenovo ThinkCentre Edge 72 Tower

ThinkCentre® Edge 72 Small (3493) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3493-A7U	3x2	G630	2GBx1 1600MHz	250G 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None	Pro 64	06/19/12
✂ 3493-A8U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None	Pro 64	06/19/12
3493-EKU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	Serial	Stand	None	Pro 64	07/10/12
3493-F8U	3x2	G640	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	Serial	Stand	None	Pro 64	07/17/12
3493-BNU	3x2	G640	2GBx1 1600MHz	250G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Pro 64	08/14/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G630 Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 13.2" W X 15.0" D X 3.9" H • 336mm W X 382mm D X 101mm H • 13.2 lb (6.0 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 19, July 10, July 17, or August 14, 2012

✂ US models withdrawn effective August 2012

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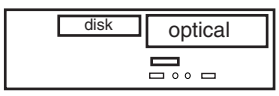
ThinkCentre® Edge 72 Small (3493) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3493-A6U	3x2	i5-3550S	4GBx1 1600MHz	1TB 7200	DVD±RW	HD 7350	None	None	None	Parallel	Serial	Stand	None	Pro 64	06/19/12
✂ 3493-B7U	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	None	None	Stand	None	Pro 64	06/19/12
3493-EJU	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	None	Serial	Stand	None	Pro 64	07/10/12
3493-BKU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	None	Stand	None	Pro 64	09/04/12
3493-BPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	Serial	Stand	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 13.2" W X 15.0" D X 3.9" H • 336mm W X 382mm D X 101mm H • 13.2 lb (6.0 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 19, July 10, or September 4, 2012

✂ US models withdrawn effective August 2012

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ThinkCentre® Edge 72 Small (3493) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Floor stand	Global	Preload	Ann date *(mm/dd/yy)*
✂ 3493-DFU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD	Intel HD	None	None	None	None	Serial	Stand	None	Win7 Pro64	10/23/12
✂ 3493-DGU	3x2	G640	4GBx1 1600MHz	500G 7200	DVD	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	10/23/12
3493-GPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	HD 2500	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	11/20/12
3493-GRU	3x2	G645	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	11/20/12
3493-H5U	3x2	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	12/25/12
3493-HAU	3x2	G2020	2GBx1 1600MHz	500G 7200	DVD±RW	Intel HD	None	None	None	Parallel	Serial	Stand	None	Win7 Pro64	02/19/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with 1066MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 13.2" W X 15.0" D X 3.9" H • 336mm W X 382mm D X 101mm H • 13.2 lb (6.0 kg) in maximum configuration • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo® Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Feb 19, 2013

✂ US models withdrawn effective November 2012 or January 2013

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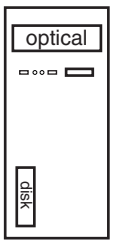
ThinkCentre® Edge 72 Tower (3484) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3484-A7U	3x2	i3-2130	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
✂ 3484-A8U	3x2	i3-2120	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
✂ 3484-A9U	3x2	G630	2GBx1 1600MHz	250G 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
3484-FDU	3x2	G640	4GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	None	Serial	None	Pro 64	07/10/12
3484-GAU	3x2	G640	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	None	Serial	None	Pro 64	07/17/12
3484-BFU	3x2	G640	2GBx1 1600MHz	250G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Pro 64	08/14/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G630 Processor** (**2 cores / 2 threads**, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-2130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics** in processor, uses main memory, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 6.3" W X 15.7" D X 15.6" H (with handle) • 160mm W X 399mm D X 397mm H • 16.5 lb (7.5 kg) in maximum configuration • Ergonomic rubberized handle • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 19, July 10, July 17, or August 14, 2012

✂ US models withdrawn effective August 2012

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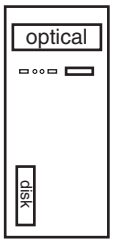
ThinkCentre® Edge 72 Tower (3484) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Win7 preload	Ann date *(mm/dd/yy)*
✂ 3484-A6U	3x2	i5-3550S	4GBx1 1600MHz	1TB 7200	None	DVD±RW	HD 7350	None	None	None	Parallel	Serial	None	Pro 64	06/19/12
✂ 3484-C1U	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	None	None	None	Pro 64	06/19/12
3484-FCU	3x2	i5-3470S	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	None	Serial	None	Pro 64	07/10/12
3484-BGU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	Parallel	Serial	None	Pro 64	09/04/12

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller **Intel Core i5-3470S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i5-3550S Processor** (**4 cores / 4 threads**, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics 2500** in processor, uses main memory, DirectX® 11, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz *Some:* **AMD Radeon™ HD 7350**, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 30 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 6.3" W X 15.7" D X 15.6" H (with handle) • 160mm W X 399mm D X 397mm H • 16.5 lb (7.5 kg) in maximum configuration • Ergonomic rubberized handle • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 19, July 10, or September 4, 2012

✂ US models withdrawn effective August 2012

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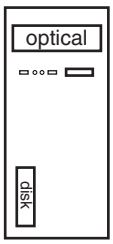
ThinkCentre® Edge 72 Tower (3484) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	PCIe Mini Card WLAN	Blue-tooth	Media reader	Parallel port	Serial port	Global	Preload	Ann date *(mm/dd/yy)*
✂ 3484-DEU	3x2	G640	4GBx1 1600MHz	500G 7200	None	DVD	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	10/23/12
✂ 3484-DFU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD	HD 2500	None	None	None	Parallel	Serial	None	Win7 Pro64	10/23/12
3484-HNU	3x2	G645	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	11/20/12
3484-HPU	3x2	i3-3220	4GBx1 1600MHz	500G 7200	None	DVD±RW	HD 2500	None	None	None	Parallel	Serial	None	Win7 Pro64	11/20/12
3484-JJU	3x2	G2120	4GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	12/25/12
3484-JMU	3x2	G2020	2GBx1 1600MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	Parallel	Serial	None	Win7 Pro64	02/19/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G645 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2020 Processor** (**2 cores / 2 threads**, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G2120 Processor** (**2 cores / 2 threads**, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-3220 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3**, two 240-pin DIMM sockets *System automatically clocks down for processors with 1066MHz DDR3 memory controller*
Graphics	**Intel HD Graphics** or **Intel HD Graphics 2500** in processor, uses main memory, one VGA, one DVI-D, supports dual independent display; *Maximum resolution:* 2560x1600 (VGA)@60Hz; 1920x1200 (DVI-D)@60Hz
DP dongle	None
Disk	SATA 3.0Gb/s 7200 rpm
Optical	*Some:* DVD-ROM DL SATA 1.5Gb/s 16-48X Max[4] Drive *Some:* Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar
eSATA port	None
Media reader	None
Chipset	**Intel H61 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	None
Keyboard	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, universal, manual switch
Machine	• Glossy black bezel; metal case • 6.3" W X 15.7" D X 15.6" H (with handle) • 160mm W X 399mm D X 397mm H • 16.5 lb (7.5 kg) in maximum configuration • Ergonomic rubberized handle • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Communication Utility
- View Management Utility
- Lenovo® Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-Edge72 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced Oct 23, 2012, Nov 20, 2012, Dec 25, 2012, or Feb 19, 2013

✂ US models withdrawn effective January 2013

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Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	*ann 06/05/12*
4GB PC3-12800 DDR3 UDIMM	0A65729	*ann 06/05/12*
8GB PC3-12800 DDR3 UDIMM	0A65730	*ann 06/05/12*

More information at
www.lenovo.com/support/desktopmemorycompatibility

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max[4]	41N5618	*ann 09/26/06*
Lenovo® Super Multi-Burner SATA Drive	0A65618	*ann 08/23/11*
Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	*ann 03/31/09*

Storage and removable storage

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	*ann 11/06/07*
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	*ann 08/19/08*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

Graphics

Small 3493 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

Tower 3484 support:

NVIDIA NVS 510 2GB Graphics Card by Lenovo [67]	0B47077	*ann 01/29/13*

[67] Simultaneously use the graphic card monitor ports along with the system's integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at **www.lenovo.com/support/graphiccards**

Keyboard

Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
Lenovo Mini Wireless Keyboard N5901[52]	57Y6336	*ann 12/08/09*
ThinkPad® USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*
Lenovo Cherry Smartcard Keyboard	0A36328	*ann 05/10/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at **www.lenovo.com/support/keyboards**

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*

More information at **www.lenovo.com/support/mice**

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Multimedia

ThinkPad In-Ear Headphones with mic[60]	57Y4488	*ann 01/07/10*

[60] Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

[56] Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HC1	*ann 05/01/12*

[69] DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Lenovo DVI to DVI Monitor Cable	0B47071	
Kensington MicroSaver Cable Lock[56]	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock[56]	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock[56]	57Y4303	*ann 08/24/10*
ThinkCentre Extend Arm	57Y4352	*ann 07/06/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkCentre®

ThinkCentre E73 SFF and Tower

ThinkCentre E73 Tower
with Dual Lenovo ThinkVision Monitors

ThinkCentre E73 SFF

ThinkCentre E73 SFF

ThinkCentre E73 Tower

ThinkCentre E73 SFF
with HDD and optional SSD

ThinkCentre® E73 SFF (10AU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Floor stand	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AU002MUS	3x4	i5-4430S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	Serial	None	USB	None	Win7 Pro64 (DG)	10/22/13
10AU002PUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002QUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002RUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	180 watts, universal, autosensing
Machine	● Glossy black bezel; metal case ● 13.2" W X 15.0" D X 3.98" H ● 336mm W X 382mm D X 101mm H ● 13.2 lb (6.0 kg) in maximum configuration ● Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, optnl reader* *bay only available on models with SSD/reader installed
Slot	Slot 1: Low Profile, PCI Express® 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced October 22, 2013

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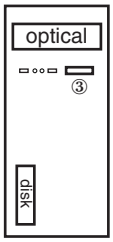
ThinkCentre® E73 Tower (10AS) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Keyboard / mouse	Global	Preload	Ann date *(mm/dd/yy)*
10AS002JUS	3x3	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS002KUS	3x3	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS005LUS	3x3	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 Pro64 (DG)	12/10/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Stylish design, reliability, and productivity for small/medium businesses*
Processor	**Intel® Pentium® G3220 Processor** (**2 cores / 2 threads**, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller **Intel Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **UDIMM**, **PC3-12800 1600MHz DDR3***, two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller
Graphics	**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz
DP dongle	None
Disk	*Some:* SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	**Intel H81 Express Chipset**
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
PCIe WLAN	None
Bluetooth	None
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN
Manageability	Intel Standard Manageability
Modem	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo *Some:* Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, universal, autosensing
Machine	• Glossy black bezel; metal case • 6.3" W X 15.7" D X 15.6" H (with handle) • 160mm W X 400mm D X 397mm H • 16.5 lb (7.5 kg) in maximum configuration • Ergonomic rubberized handle • Highlighted optical drive button for easy access
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, optnl reader* *bay only available on models with media reader installed
Slot	Slot 1: half-length, full-height, PCI Express® 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1
Limited Warranty[1]	**1-year**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced October 22, 2013 or December 10, 2013

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ThinkCentre®

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z All-In-One - II

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z with UltraFlex Stand
with optional wireless mouse / keycoard
and Lenovo ThinkVision Monitor

ThinkCentre E93z with UltraFlex Stand

ThinkCentre E93z (handle)

ThinkCentre® E93z (10B8) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Preload	Ann date *(mm/dd/yy)*
10B80007US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB	Win7 Pro64 DG	08/27/13
10B80058US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 Pro64 DG	10/22/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i3-4130 Processor** (**2 cores / 4 threads**, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller **Intel Core i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1200 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Lenovo® Slim New F5 USB Keyboard (USB connector), black *Some:* Preferred Pro USB Keyboard (USB connector), Lenovo logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 27, 2013 or October 22, 2013

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ThinkCentre® E93z (10B9) - NVIDIA (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10B9000SUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1200 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	None
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 27, 2013

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ThinkCentre® E93z (10BA) - Multi-touch (NVIDIA) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BA000EUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	Frame	2.4G	None	Win7 Pro64 DG	08/27/13
10BA000FUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	2.4G	None	Win7 Pro64 DG	08/27/13
10BA000GUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG	08/27/13
10BA000HUS	i5-4430S	8GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG	08/27/13
10BA001LUS	i7-4770S	8GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	None	Win7 Pro64 DG	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4430S Processor** (**4 cores / 4 threads**, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i7-4770S Processor** (**4 cores / 8 threads**, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1200 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	*Some:* SATA 3.0Gb/s, 2.5" Wide, 7200 rpm *Some:* 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	*Some:* Preferred Pro USB Keyboard (USB connector), Lenovo® logo *Some:* Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Mouse	*Some:* Enhanced Optical USB Mouse, black, Lenovo logo *Some:* Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 27, 2013

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ThinkCentre® E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory[8]	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/ Mouse	Global	Preload	Ann date *(mm/dd/yy)*
10BA000MUS	i5-4670S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win8 Pro64	08/27/13
10BA001MUS	i5-4570S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	None	Win8 Pro64	08/27/13

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *1-year limited warranty*

Positioning	*Premium All-In-One PC for the enterprise*
Processor	**Intel® Core™ i5-4570S Processor** (**4 cores / 4 threads**, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller **Intel Core i5-4670S Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Implementation	Processor in LGA1150 socket
Memory	16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4400/4600** in processor, and **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; *Max resolution:* 1920x1080 (panel)@60Hz; 1920x1200 (HDMI)@60Hz
Display	**21.5"** (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector
Light sensor	None
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
Media reader	Optional 11-in-1 media card reader
Chipset	**Intel B85 Express Chipset**
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
Intel AMT	None
Security chip	None
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	180 watts, autosensing, 92% PSU
Color	Business black color
VESA mount	Support VESA mount (100mm)
Dimensions and weight (without stand)	*Non-touch models (WxDxH):* 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration *Touch models (WxDxH):* 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration
Stand	*Optional Frame Stand:* Adjustable between 10° and 65° (Tilt) *Optional Monitor Stand:* Adjustable between -5° and 45° (Tilt) *Optional UltraFlex Stand:* Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management
Limited Warranty	**1-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

ENERGY STAR® 5.2-compliant
EuP 2013
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced August 27, 2013

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The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:
http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year LOR 9x5 Next Business Day	04W8712

TopSeller service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 Next Business Day	04W8710
4-year LOR 9x5 Next Business Day	04W8711

ThinkCentre desktop with 3-year Onsite warranty

4-year LOR 9x5 Next Business Day	04W8712

TopSeller Priority Support

- 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8721
Add to 4-year warranty coverage - 4-year Priority Support*	04W8722

* Covered machine must have concurrent warranty coverage.

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Partial list of Lenovo Services[7]
for ThinkCentre desktops

For more information see:
http://www.lenovo.com/services_warranty/us/en/index.html

Lenovo service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

Models with 7-digit MTM

2-year Onsite 9x5 Next Business Day	41C9187
3-year Onsite 9x5 Next Business Day	41C9188
Models with 10-digit MTM	
2-year Onsite 9x5 Next Business Day	5WS0D80992
3-year Onsite 9x5 Next Business Day	5WS0D80967

ThinkCentre desktop with 3-year Onsite warranty

Models with 7-digit MTM

4-year Onsite 9x5 Next Business Day	41C9194

Models with 10-digit MTM

4-year Onsite 9x5 Next Business Day	5WS0D81063

Lenovo service upgrade options for ThinkCentre A series and Edge series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

2-year Onsite 9x5 Next Business Day	45K5949
3-year Onsite 9x5 Next Business Day	45K5950

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

4-year Onsite 9x5 Next Business Day	45K5957
5-year Onsite 9x5 Next Business Day	45K5963

Lenovo Priority Support for enterprise customers

- 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9087

ThinkCentre desktop with 3-year Onsite warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9088
Add to 4-year warranty coverage - 4-year Priority Support*	45J9089
Add to 5-year warranty coverage - 5-year Priority Support*	45J9090

* Covered machine must have concurrent warranty coverage.

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Product Specifications Reference (PSREF) withdrawn product books

Disclaimer
Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page . Lenovo makes no representation or warranty regarding third party products or services.

[1] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[2] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[3] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[4] **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.

[5] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

[7] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See lenovo terms and conditions for complete details and restrictions.

[8] **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.

[9] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[10] **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[11] **For combination drives**, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

[12] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[13] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[14] **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

[15] **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.

[16] **Embedded Security Subsystem** works with optional VPN software.

[18] **Embedded Security Subsystem** may require download of client security software from the Web.

[19] **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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