

ThinkCentre M92/M92p Tiny, Small, Tower



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ThinkCentre M92 Tiny (3234) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Processor	Memory ⁸	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional Chassis port intr switch	Floor stand	VESA mount	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3234-A6U	i3-2120T	4GBx1	500G 5400	None	HD 2000	None	None	Stand	None	ES52	None	Pro 64	06/05/12

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

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system	
Processor	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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64	
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed)	
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 	
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											Preloaded applications (only some listed)	
DP dongle	None											<ul style="list-style-type: none"> • 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 	
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 eSATA port	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar												
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	<ul style="list-style-type: none"> • 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) 											Security <ul style="list-style-type: none"> • 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	
Limited Warranty	1-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

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

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(MHTN1-1) November 2013

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 (mm/dd/yy)	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system			
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										Genuine Windows® 7 Embedded 32			
Implementation	Processor in LGA1155 socket										Preloaded applications (only some listed)			
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> ● 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 			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> 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	<i>Some:</i> Supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU													
Machine	<ul style="list-style-type: none"> ● 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) 										Security <ul style="list-style-type: none"> ● 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			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information
US models announced July 10, 2012 or March 5, 2013

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(MHTN1-20) March 2013

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	Pro 64	07/10/12
2121-A2U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	Pro 64	07/10/12
2121-A3U	i5-3470T	4GBx1	320G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	Pro 64	07/10/12
2121-A4U	i5-3470T	4GBx1	500G 7200	DVD±RW	HD 2500	None	Serial	None	None	Mount	ES52	vPro	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	Pro 64	07/10/12
2121-A6U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	None	Mount	ES52	vPro	Pro 64	07/10/12
2121-A7U	i5-3470T	4GBx1	500G 7200	None	HD 2500	Intel 2230 + BT	None	None	Stand	Mount	ES52	vPro	Pro 64	07/10/12
2121-B1U	i5-3470T	4GBx1	500G 7200	None	HD 2500	None	DP	None	Stand	Mount	ES52	vPro	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	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	<i>Ultimate security, stability, and manageability for the enterprise</i>	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)
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm	
External optical	<i>Some:</i> 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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> 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	<i>Some:</i> 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	<ul style="list-style-type: none"> • 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	
	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

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 (MHTN1-19) August 2012

ThinkCentre M92p Tiny (2121) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory ^a	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional port	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 Processor	<i>Ultimate security, stability, and manageability for the enterprise</i> 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	Preloaded operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Adobe® Reader® • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models <ul style="list-style-type: none"> • Lenovo® Support • Lenovo Companion • Norton™ Studio • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models <ul style="list-style-type: none"> • 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™
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; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz	
DP dongle	None	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> 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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> 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	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> • 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	Security <ul style="list-style-type: none"> • 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

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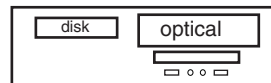
ThinkCentre M92p Small (2988) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	Ann date (mm/dd/yy)
2988-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A3U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	vPro	Pro 64	06/05/12
2988-A9U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	vPro	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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system	
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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 	
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>												
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	<ul style="list-style-type: none"> • 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 											Security <ul style="list-style-type: none"> • 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) 	
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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies	
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											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

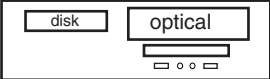
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ThinkCentre M92p Small (2988) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Display-Port dongle	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Intel vPro Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)	
2988-A4U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	None	HD 7350	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A5U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	None	HD 7450	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	None	HD 7350	None	Stand	ES52	vPro	None	Pro 64	06/05/12
2988-A8U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	None	HD 7450	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

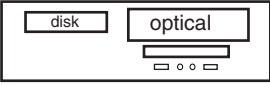
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system	
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 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											Genuine Windows® 7 Professional 64	
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed) <ul style="list-style-type: none"> ● Rescue and Recovery™ ● Password Manager 	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed) <ul style="list-style-type: none"> ● 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) 	
Graphics	<i>Some:</i> 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; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> 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; <i>Maximum resolution:</i> 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)											Security <ul style="list-style-type: none"> ● 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) 	
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	<ul style="list-style-type: none"> ● 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											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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(MHTN1-7) June 2012

ThinkCentre M92p Small (2988) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	PCIe Mini Card WLAN / BT	Chassis intr	Floor switchstand	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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 Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										Preloaded applications (only some listed)				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										- 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)				
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> 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; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										- Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)				
DP dongle	None										- 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™				
Disk	SATA 6.0Gb/s 7200 rpm										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)				
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	<ul style="list-style-type: none"> • 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										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

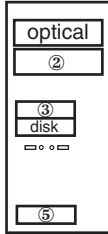
See footnotes for important warranty information
 US models announced October 23, 2012 or March 3, 2013

ThinkCentre M92p Tower (2992) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	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

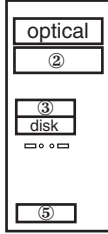
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
Processor	Intel® Core™ i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel 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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 			
Graphics	<i>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;</i> <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> <i>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</i> <i>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</i>														
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 (TPM 1.2-compliant)											Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> - 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) 			
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	<ul style="list-style-type: none"> • 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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

ThinkCentre M92p Tower (2992) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed)			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
Graphics	<i>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;</i> <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz;</i> <i>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</i> <i>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</i>											Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 			
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)											Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> - 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) 			
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	<ul style="list-style-type: none"> • 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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

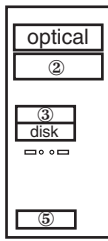
See footnotes for important warranty information
 US models announced June 5 or July 10, 2012

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 (MHTN1-13) July 2012

ThinkCentre M92p Tower (2992) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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 Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											Preloaded applications (only some listed)			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											- Windows 7 models <ul style="list-style-type: none"> 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) 			
Graphics	Some: Intel HD Graphics 2500 / 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> 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; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors											- Windows 8 models <ul style="list-style-type: none"> Lenovo Support Lenovo Companion Lenovo Cloud Storage Norton™ Studio AccuWeather Evernote® Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) 			
DP dongle	None											- All models			
Disk	SATA 6.0Gb/s 7200 rpm											<ul style="list-style-type: none"> 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™ 			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											Security			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support											<ul style="list-style-type: none"> Security chip (see information on left) One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -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) 			
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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
eSATA port	None											Supports ThinkVantage Technologies			
Media reader	None											For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			
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	<ul style="list-style-type: none"> 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														

See footnotes for important warranty information

US models announced October 23, 2012 or March 12, 2013

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(MHTN1-30) March 2013

ThinkCentre M92 Tiny (3229) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory ^a	SATA disk GB	External rpm	optical Graphics	PCle 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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system		
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 Processor in LGA1155 socket											Genuine Windows® 7 Embedded 32 Preloaded applications (only some listed) <ul style="list-style-type: none"> ● 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 		
Implementation	Processor in LGA1155 socket													
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>													
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
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	<ul style="list-style-type: none"> ● 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) 											Security <ul style="list-style-type: none"> ● 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		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											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

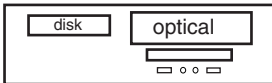
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 (MHTN1-23) July 2013

ThinkCentre M92 Small (3207) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	Ann date (mm/dd/yy)
3207-A8U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None None	Pro 32	06/05/12
3207-A9U	4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None None	Pro 32	06/05/12

•3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system		
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											Genuine Windows® 7 Professional 32		
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed)		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											<ul style="list-style-type: none"> Rescue and Recovery™ Password Manager 		
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											Preloaded applications (only some listed)		
DP dongle	None											<ul style="list-style-type: none"> 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) 		
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	<ul style="list-style-type: none"> 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 											Security		
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											<ul style="list-style-type: none"> 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) 		
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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
												Supports ThinkVantage Technologies		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											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

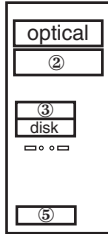
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ThinkCentre M92 Tower (3208)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system			
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										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64			
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
Graphics	Some: Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> 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; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 			
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)										Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -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) 			
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	<ul style="list-style-type: none"> • 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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
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										Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										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

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 (MHTN1-11) November 2012

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	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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 Processor in LGA1155 socket										Genuine Windows® 7 Embedded 32				
Implementation											Preloaded applications (only some listed)				
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> ● 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 				
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>														
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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	<i>Some:</i> 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	<i>Some:</i> Supports VESA 75mm and 100mm mount standard														
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU														
Machine	<ul style="list-style-type: none"> ● 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) 										Security <ul style="list-style-type: none"> ● 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				
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information
US models announced July 10, 2012 or March 5, 2013

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(MHTN1-21) March 2013

ThinkCentre M92p Tiny (3243)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory ^a	SATA disk GB rpm	External optical	Graphics	PCIe Mini Card WLAN / BT	Optional Chassis port 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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system		
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										Genuine Windows® 7 Professional 64		
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)		
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 		
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										Preloaded applications (only some listed)		
DP dongle	None										<ul style="list-style-type: none"> • 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 		
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	<ul style="list-style-type: none"> • 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) 										Security <ul style="list-style-type: none"> • 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		
Limited Warranty	1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

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 (mm/dd/yy)	Ann date (mm/dd/yy)
3238-A1U	i5-3470T	4GBx1	500G 5400	DVD±RW	HD 2500	None	None	None	None	Mount	ES52	vPro	Pro 64	06/05/12
3238-B5U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	None	None	ES52	vPro	Pro 64	06/05/12
3238-B6U	i5-3470T	4GBx1	320G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	Pro 64	06/05/12
3238-B7U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	None	None	Stand	None	ES52	vPro	Pro 32	06/05/12
3238-B8U	i5-3470T	2GBx1	320G 5400	None	HD 2500	None	None	None	Stand	Mount	ES52	vPro	Pro 32	06/05/12
3238-D9U	i5-3470T	4GBx1	500G 5400	None	HD 2500	None	USB	None	Stand	Mount	ES52	vPro	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system		
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											Some: Genuine Windows® 7 Professional 32		
Implementation	Processor in LGA1155 socket											Some: Genuine Windows 7 Professional 64		
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)											Ready to install applications (only some listed)		
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 		
DP dongle	None											Preloaded applications (only some listed)		
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm											<ul style="list-style-type: none"> • 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) 		
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	<ul style="list-style-type: none"> • 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) 											Security <ul style="list-style-type: none"> • 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		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

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 ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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										Genuine Windows® 7 Professional 64				
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)				
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> ● Rescue and Recovery™ ● Password Manager 				
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										Preloaded applications (only some listed)				
DP dongle	None										<ul style="list-style-type: none"> ● 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) 				
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide										Security <ul style="list-style-type: none"> ● 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) 				
External optical	<i>Some:</i> 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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	<i>Some:</i> 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	<i>Some:</i> System floor stand for vertical orientation														
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard														
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU														
Machine	<ul style="list-style-type: none"> ● 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) 										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										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

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(MHTN1-17) November 2012

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-L3U	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 Processor	<i>Ultimate security, stability, and manageability for the enterprise</i> 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	Preloaded operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Implementation	Processor in LGA1155 socket	
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)	Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • Adobe® Reader® • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models <ul style="list-style-type: none"> • Lenovo® Support • Lenovo Companion • Lenovo Cloud Storage • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models <ul style="list-style-type: none"> • 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™
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
DP dongle	None	
Disk	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> 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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> 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	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black	
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
VESA mount	<i>Some:</i> Supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul style="list-style-type: none"> • 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	Security <ul style="list-style-type: none"> • 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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(MHTN1-25) June 2013

ThinkCentre M92p Tiny (3237) - GMP (Thin Client)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory ^a	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(mm/dd/yy)	Ann date
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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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 Processor in LGA1155 socket											Genuine Windows® 7 Embedded 32			
Implementation												Preloaded applications (only some listed)			
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> • 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 			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>														
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	<ul style="list-style-type: none"> • 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) 											Security <ul style="list-style-type: none"> • 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			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information
US model announced July 10, 2012

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(MHTN1-22) July 2012

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(mm/dd/yy)	Ann date
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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed)			
Memory	16GB max, PC3-12800 1600MHz DDR3 , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> ● Rescue and Recovery™ ● Password Manager 			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											Preloaded applications (only some listed)			
DP dongle	None											<ul style="list-style-type: none"> ● 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) 			
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	<ul style="list-style-type: none"> ● 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) 											Security			
												<ul style="list-style-type: none"> ● 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			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

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

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(MHTN1-4) June 2012

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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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 Processor in LGA1155 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit			
Implementation															
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											Preloaded applications (only some listed) - Windows 7 models			
DP dongle	None											<ul style="list-style-type: none"> ● 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) 			
Disk	SATA 3.0Gb/s, 2.5" Wide, 5400 rpm											- Windows 8 models			
External optical	Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in											<ul style="list-style-type: none"> ● Lenovo Support ● Lenovo Companion ● Lenovo Cloud Storage ● Norton™ Studio ● AccuWeather ● Evernote® ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) 			
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											- All models			
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											<ul style="list-style-type: none"> ● 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™ 			
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	<ul style="list-style-type: none"> ● 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) 											Security			
												<ul style="list-style-type: none"> ● 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			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

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

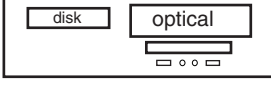
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ThinkCentre M92p Small (3209)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	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 Processor	<p><i>Ultimate security, stability, and manageability for the enterprise</i></p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>Processor in LGA1155 socket</p>	<p>Preloaded operating system</p> <p><i>Some:</i> Genuine Windows® 7 Professional 32</p> <p><i>Some:</i> Genuine Windows 7 Professional 64</p> <p>Ready to install applications (only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager <p>Preloaded applications (only some listed)</p> <ul style="list-style-type: none"> • 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 Simple Tap • 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)
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>	
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	<ul style="list-style-type: none"> • 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	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>	
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>	
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p>Security</p> <ul style="list-style-type: none"> • 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) <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>ULE Gold</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

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

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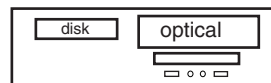
ThinkCentre M92p Small (3209) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system		
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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64 Ready to install applications (only some listed)		
Implementation	Processor in LGA1155 socket											<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed)		
Graphics	AMD Radeon™ HD 7350 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA adapter), one DisplayPort™, 30 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i> ; works along with Intel HD Graphics to support up to four independent monitors											<ul style="list-style-type: none"> • 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) 		
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	<ul style="list-style-type: none"> • 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 											Security <ul style="list-style-type: none"> • 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) 		
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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
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											Supports ThinkVantage Technologies		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											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

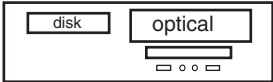
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ThinkCentre M92p Small (3209) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system									
Processor	<p>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</p> <p>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</p> <p>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</p> <p>Processor in LGA1155 socket</p>										Windows® 8 Pro 64-bit					Preloaded applications (only some listed)				
Implementation											<ul style="list-style-type: none"> • 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) 									
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets																			
Graphics	<p><i>Some:</i> Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz</p> <p><i>Some:</i> 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; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors</p>																			
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	<ul style="list-style-type: none"> • 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	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>																			
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>																			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.2-compliant</p> <p>ULE Gold</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M92 sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>									

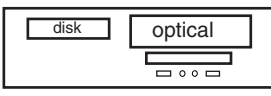
See footnotes for important warranty information
US models announced October 23, 2012

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ThinkCentre M92p Small (3209) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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 Processor in LGA1155 socket										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 				
Implementation	Processor in LGA1155 socket										Preloaded applications (only some listed)				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										<ul style="list-style-type: none"> • 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) 				
Graphics	<i>Some:</i> Intel HD Graphics 2500 / 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> 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; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> 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; <i>Maximum resolution:</i> 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)										Security <ul style="list-style-type: none"> • 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) 				
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	<ul style="list-style-type: none"> • 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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										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

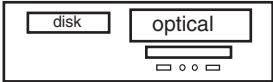
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 (MHTN1-33) October 2012

ThinkCentre M92p Small (3209) - Windows 8 - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system			
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										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz</i> ; works along with Intel HD Graphics to support up to four independent monitors										Preloaded applications (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> • 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) 			
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	<ul style="list-style-type: none"> • 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 										Security			
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										<ul style="list-style-type: none"> • 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) 			
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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
											Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

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

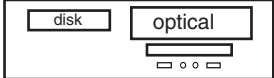
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel 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											Genuine Windows® 7 Professional 64			
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed)			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> • 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) 			
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	<ul style="list-style-type: none"> • 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 											Security <ul style="list-style-type: none"> • 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) 			
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														
												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			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

ThinkCentre M92p Small (3227) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr	Floor switch	ENERGY STAR	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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket											Some: Windows 8 Pro 64-bit			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed)			
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											- Windows 7 models			
DP dongle	None											<ul style="list-style-type: none"> • 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) 			
Disk	SATA 6.0Gb/s 7200 rpm											- Windows 8 models			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											<ul style="list-style-type: none"> • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) 			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support											- All models			
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											<ul style="list-style-type: none"> • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™ 			
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	<ul style="list-style-type: none"> • 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														
															
												Security <ul style="list-style-type: none"> • 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			
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

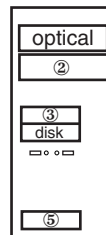
ThinkCentre M92p Tower (3212)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	Ann date (mm/dd/yy)
3212-A3U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 64	06/05/12
3212-A9U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 32	06/05/12
3212-C1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	vPro	Pro 64	06/05/12

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system		
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 Processor in LGA1155 socket											Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64		
Implementation	Processor in LGA1155 socket											Ready to install applications (only some listed)		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>											<ul style="list-style-type: none"> • 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 Simple Tap • 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) 		
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	<ul style="list-style-type: none"> • 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 											Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> - 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 mode(s) 		
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											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
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											Supports ThinkVantage Technologies For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													



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

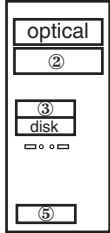
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(MHTN1-14) June 2012

ThinkCentre M92p Tower (3212) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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 Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64				
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										Preloaded applications (only some listed)				
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> 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; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors										<ul style="list-style-type: none"> • 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) 				
DP dongle	None										Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -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				
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	<ul style="list-style-type: none"> • 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														

See footnotes for important warranty information
 US models announced June 5 or June 19, 2012

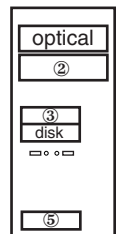
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 (MHTN1-15) June 2012

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 (mm/dd/yy)	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 Processor	<i>Ultimate security, stability, and manageability for the enterprise</i> 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 Processor in LGA1155 socket	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 Simple Tap ● 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)
Implementation	Processor in LGA1155 socket	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
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets	
Graphics	<i>Some:</i> Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> 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; <i>Maximum resolution:</i> 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	<i>Some:</i> 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	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> 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	<ul style="list-style-type: none"> ● 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	



See footnotes for important warranty information
US models announced July 10 or November 6, 2012

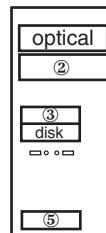
ThinkCentre M92p Tower (3212) - Windows 8

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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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 Processor in LGA1155 socket										Windows® 8 Pro 64-bit Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 				
Implementation	Processor in LGA1155 socket														
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets														
Graphics	<i>Some:</i> Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> 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; <i>Maximum resolution:</i> 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	<ul style="list-style-type: none"> • 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														



- 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

Type-model	Slot x bay	Processor	Memory ^a	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

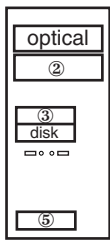
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache) , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel 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										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)				
Implementation	Processor in LGA1155 socket														
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets														
Graphics	<i>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</i> <i>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</i> <i>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</i>														
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 2.0, 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 (TPM 1.2-compliant)										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)				
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	<ul style="list-style-type: none"> • 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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system				
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										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										<ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 				
Graphics	Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										Preloaded applications (only some listed)				
DP dongle	None										<ul style="list-style-type: none"> • 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) 				
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	<ul style="list-style-type: none"> • 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 										Security				
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										<ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -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) 				
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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
															
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

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

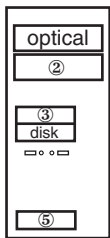
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(MHTN1-36) March 2013

ThinkCentre M92p Tower (3228) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	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 (mm/dd/yy)	Ann date
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	<i>Ultimate security, stability, and manageability for the enterprise</i>											Preloaded operating system			
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 Processor in LGA1155 socket											Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Password Manager 			
Implementation	Processor in LGA1155 socket											Preloaded applications (only some listed) <ul style="list-style-type: none"> • 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) 			
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; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>														
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	<ul style="list-style-type: none"> • 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 											Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -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) 			
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														
	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 Jun 19, 2012

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(MHTN1-16) June 2012

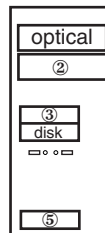
ThinkCentre M92p Tower (3228) - GMP (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Intel Global (G) vPro 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	<i>Ultimate security, stability, and manageability for the enterprise</i>										Preloaded operating system			
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										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										Some: Windows 8 Pro 64-bit			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										Preloaded applications (only some listed)			
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										- Windows 7 models			
DP dongle	None										<ul style="list-style-type: none"> • 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) 			
Disk	SATA 6.0Gb/s 7200 rpm										- Windows 8 models			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										<ul style="list-style-type: none"> • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) 			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support										- All models			
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										<ul style="list-style-type: none"> • 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™ 			
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	<ul style="list-style-type: none"> • 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 										Security			
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										<ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> - 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) 			
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										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
											Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M92 sheet; For Lenovo service upgrade options, please go to S-TC sheet			



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
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Tower 3208/2992/3212/3228 support:

NVIDIA NVS 510 2GB Graphics Card by Lenovo ⁶⁷	0B47077	ann	01/29/13
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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 ⁶²	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
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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
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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 Accessories⁴⁶

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 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