

ThinkCentre M78 Small and Tower



Lenovo ThinkCentre M78
Small and Tower



Lenovo ThinkCentre M78 Tower
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Small



Lenovo ThinkCentre M78 Small
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Tower



Lenovo ThinkCentre M78 Tower

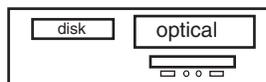
ThinkCentre M78 Small (2114) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2114-A1G	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Pro 64	08/28/12

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

Positioning	<i>Mainstream enterprise stability and manageability</i>										Preloaded operating system			
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										Genuine Windows® 7 Professional 64			
Implementation	Processor in Socket FM2										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 Business-in-a-Box 			
Graphics	AMD Radeon HD Graphics , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @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 Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Google Chrome Google Toolbar Skype™ for Windows Evernote® RapidBoot HDD Accelerator Symantec™ VIP 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 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	AMD A75 Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 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 15.0" D X 3.9" H 339mm W X 381mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention 													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										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) 			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold RoHS-compliant			
											Supports ThinkVantage Technologies			



See footnotes for important warranty information
 WE model(s) announced August 28, 2012
 WE models withdrawn effective May 2014

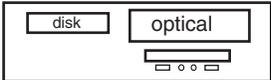
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ThinkCentre M78 Small (2114) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Ann date (mm/dd/yy)
2114-B1G	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Win8 Pro64 10/23/12
2114-C1G	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	G P	Win7 Pro64 10/30/12

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

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										
Implementation	Processor in Socket FM2										
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										
Graphics	AMD Radeon HD Graphics , integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort [™] , supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @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 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA eSATA port	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
Media reader	None										
Chipset	AMD A75 Chipset										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek [®] ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN [®]										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 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 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention 										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader										
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3										
											
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available										
	Preloaded operating system Some: Windows [®] 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> ● ThinkVantage[®] Product Recovery ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● Lenovo[®] Message Center Plus ● Lenovo SimpleTap ● Adobe[®] Reader[®] ● Google Chrome ● Google Toolbar ● RapidBoot HDD Accelerator ● Symantec[™] VIP ● Windows Live[™] Essentials ● 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 ● Lenovo QuickLaunch ● Norton[™] Studio ● Intel AppUp[®] ● AccuWeather ● PC Device Stage ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) - All models <ul style="list-style-type: none"> ● ThinkVantage[®] System Update ● View Management Utility ● Lenovo Solution Center ● Norton Internet Security (30 days of virus definitions) ● Evernote[®] ● Microsoft[®] Office preloaded; purchase a product key to activate ● Skype[™] 										
	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 RoHS-compliant										
	Supports ThinkVantage Technologies										

See footnotes for important warranty information
 WE model(s) announced October 23 or 30, 2012
 WE models withdrawn effective May 2014

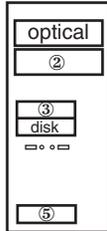
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ThinkCentre M78 Tower (2111) - TopSeller (Win 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
2111-B1G	4x5	A4-5300	2GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7480D	Switch	None	None	None	Win8 Pro64 10/23/12
2111-C1G	4x5	A4-5300	4GBx1	500G	7200	Bay	DVD±RW	None	Radeon HD 7480D	Switch	None	None	None	Win7 Pro64 10/30/12

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

Positioning	<i>Mainstream enterprise stability and manageability</i>											Preloaded operating system
Processor	AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in Socket FM2											<i>Some:</i> Windows 8 Pro 64-bit
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											Preloaded applications (only some listed)
Graphics	AMD Radeon HD Graphics , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz											- Windows 7 models
DP dongle	None											<ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Google Chrome • Google Toolbar • RapidBoot HDD Accelerator • Symantec™ VIP • 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 • Lenovo QuickLaunch • Norton™ Studio • Intel AppUp® • AccuWeather • PC Device Stage • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											- All models
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											<ul style="list-style-type: none"> • ThinkVantage® System Update • View Management Utility • Lenovo Solution Center • Norton Internet Security (30 days of virus definitions) • Evernote® • Microsoft® Office preloaded; purchase a product key to activate • Skype™
eSATA port	None											
Media reader	None											
Chipset	AMD A75 Chipset											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch											
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 • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal 											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											
												
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available											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 • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)
												RoHS-compliant
												Supports ThinkVantage Technologies

See footnotes for important warranty information
 WE model(s) announced October 23 or 30, 2012
 WE models withdrawn effective May 2014

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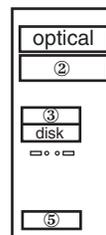
ThinkCentre M78 Tower (1565) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
1565-A1G	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Pro 64	08/28/12

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

Positioning	<i>Mainstream enterprise stability and manageability</i>										Preloaded operating system			
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										Genuine Windows® 7 Professional 64			
Implementation	Processor in Socket FM2										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 Business-in-a-Box 			
Graphics	AMD Radeon HD Graphics , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</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 Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Google Chrome Google Toolbar Skype™ for Windows Evernote® RapidBoot HDD Accelerator Symantec™ VIP 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 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	AMD A75 Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 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 27.5 lb (12.5 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal 													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										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 Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s) 			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available										EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies			



See footnotes for important warranty information
 WE model(s) announced August 28, 2012
 WE models withdrawn effective May 2014

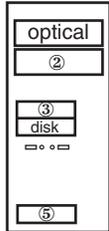
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ThinkCentre M78 Tower (1565) - ES 5.2 (GMP) - Win 8

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Global (G) GMP (P)	Ann date (mm/dd/yy)
1565-B1G	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Win8 Pro64 10/23/12
1565-C1G	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	G P	Win7 Pro64 10/30/12

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

Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)										
Implementation	Processor in Socket FM2										
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										
Graphics	AMD Radeon HD Graphics , integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @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 6.0Gb/s, integrated in chipset, RAID 0/1										
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar										
eSATA port	None										
Media reader	None										
Chipset	AMD A75 Chipset										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)										
Audio	High Definition (HD) Audio, Realtek [®] ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN [®]										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 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 • 27.5 lb (12.5 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal 										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3										
											
	Preloaded operating system Some: Windows [®] 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit										
	Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> • ThinkVantage[®] Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo[®] Message Center Plus • Lenovo SimpleTap • Adobe[®] Reader[®] • Google Chrome • Google Toolbar • RapidBoot HDD Accelerator • Symantec[™] VIP • Windows Live[™] Essentials • 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 • Lenovo QuickLaunch • Norton[™] Studio • Intel AppUp[®] • AccuWeather • PC Device Stage • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models <ul style="list-style-type: none"> • ThinkVantage[®] System Update • View Management Utility • Lenovo Solution Center • Norton Internet Security (30 days of virus definitions) • Evernote[®] • Microsoft[®] Office preloaded; purchase a product key to activate • Skype[™] 										
	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 • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s) 										
	EPEAT [™] Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant										
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available										
	Supports ThinkVantage Technologies										

See footnotes for important warranty information
 WE model(s) announced October 23 or 30, 2012
 WE models withdrawn effective May 2014

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