

# ThinkCentre M83 Small Pro, Mini Tower



Lenovo ThinkCentre M83 Mini Tower with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Mini Tower with optional WLAN and graphic card



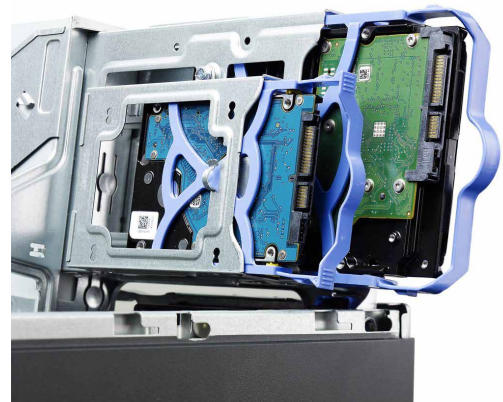
Lenovo ThinkCentre M83 Small Pro with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Small Pro with optional dual graphic cards  
\* Cable lock only available on some special bid models



Lenovo ThinkCentre M83 Small Pro (inside view)

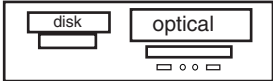


Optional 2.5" bay on  
Lenovo ThinkCentre M83 Small Pro  
\* Come with optional 2.5" 2nd HDD

# ThinkCentre M83 SFF Pro (10AM) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd disk	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AM0002US	3x4	i5-4670	4GBx1	1TB 7200		None		HD 4600	USB	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0003US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0004US	3x4	i7-4770	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0005US	3x4	i5-4570	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0006US	3x4	i7-4770	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0007US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM000AUS	3x4	i7-4770	4GBx1	1TB 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000BUS	3x4	i5-4570	4GBx1	128G SSD	1TB	None	Media	HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM0009US	3x4	i3-4130	4GBx1	500G 7200		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000CUS	3x4	i3-4130	4GBx1	500G Hybrid		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)				
Graphics	<b>Intel HD Graphics 4400 or 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
DP dongle	None															
Disk	Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide															
2nd disk	Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset															
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	Some: 29-in-1 media reader, internal USB 2.0															
Chipset	<b>Intel Q85 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Manageability	Intel Standard Manageability															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b>				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	Optional system floor stand for vertical orientation															
Power supply	240 watts, autosensing															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader															
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)															
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

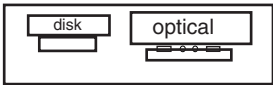
See footnotes for important warranty information  
 US model(s) announced July 30, 2013 or August 20, 2013

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 (MSK1S-3) September 2013

# ThinkCentre M83 SFF Pro (10AM) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>6</sup> SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AM000JUS	3x4	i3-4130	4GBx1 500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000KUS	3x4	i5-4570	4GBx1 500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000LUS	3x4	i7-4770	4GBx1 500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000MUS	3x4	i7-4770	8GBx1 1TB Hybrid	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000NUS	3x4	G3220	4GBx1 500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000PUS	3x4	i3-4130	4GBx1 500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000QUS	3x4	i5-4570	4GBx1 500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000RUS	3x4	i5-4670	4GBx1 1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000SUS	3x4	i7-4770	4GBx1 1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000TUS	3x4	i3-4130	4GBx1 500G 3.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 04/01/14

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation												<b>Ready to install applications (only some listed)</b> • Rescue and Recovery™ • Password Manager			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications (only some listed)</b> • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Intel Small Business Advantage • Nitro Pro			
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution: 2560x1600 (DP)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</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;</i> <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>														
DP dongle	None														
Disk	<i>Some: SATA 6.0Gb/s, 7200 rpm, 2.5" wide</i> <i>Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide</i> <i>Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide</i>														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	Optional system floor stand for vertical orientation														
Power supply	240 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader														
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 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 TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

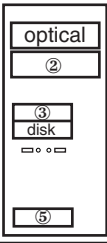
See footnotes for important warranty information  
US model(s) announced February 04, February 25, or April 1, 2014

# ThinkCentre M83 Mini Tower (10AL) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AL0008US	3x5	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL0009US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000AUS	3x5	i7-4770	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000BUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000CUS	3x5	i5-4670	4GBx2	1TB 7200	DVD±RW	None	None	HD 4600	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000DUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 8470	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000EUS	3x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	GT 620	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000FUS	3x5	i7-4770	4GBx2	500GB 7200	DVD±RW	None	None	HD 8570	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000GUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	08/20/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

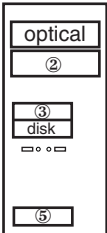
Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <b>Ready to install applications</b> (only some listed)			
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											Supports ThinkVantage Technologies			
Power supply	280 watts, autosensing											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

# ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>3</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AL000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG	Win8.1 02/04/14
10AL000RUS	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG	Win8.1 02/04/14
10AL000SUS	3x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG	Win8.1 02/04/14
10AL000TUS	3x5	i7-4770	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG	Win8.1 02/04/14
10AL000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AL000VUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<b>Mainstream enterprise stability and manageability</b>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket														
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</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; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm, 3.5" wide <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 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(s) announced February 4, 2014 or February 25, 2014

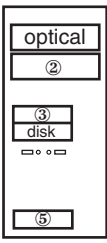
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(MSK1T-6) February 2014

# ThinkCentre M83 Mini Tower (10AL) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>3</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/yy)
10AL0014US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0017US	3x5	G3240	4GBx1	500GB 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL000XUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0013US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL000YUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0016US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0012US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0010US	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0015US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0011US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected mode(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information

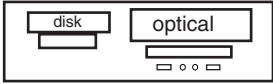
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(MSK1T-7) October 2014

# ThinkCentre M83 SFF Pro (10AN)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AN0006US	3x4	i5-4570	4GBx1	500G 7200 DVD±RW	None	None	Reader	HD 8470	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AN000GUS	3x4	i5-4570	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000HUS	3x4	i7-4770	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000JUS	3x4	i7-4770	8GBx1	1TB 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000KUS	3x4	i5-4570	8GBx1	1TB 7200 DVD±RW	None	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000XUS	3x4	i3-4130	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4400	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13
10AN000YUS	3x4	i3-4130	8GBx1	1TB Hybrid DVD±RW	None	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13

•3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation												<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed)
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>
Disk	<i>Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide</i> <i>Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide</i>											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset											
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)											
eSATA port	None											
Media reader	<i>Some: 29-in-1 media reader, internal USB 2.0</i>											
Chipset	<b>Intel Q85 Express Chipset</b>											
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
PCIe WLAN	None											
Bluetooth	None											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio (1 watt)											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Manageability	Intel Standard Manageability											
Modem	None											
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	Optional system floor stand for vertical orientation											
Power supply	240 watts, autosensing											
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader											
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

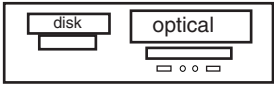
See footnotes for important warranty information

US model(s) announced July 30, 2013, August 27, 2013, or October 22, 2013

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(MSK1S-4) October 2013

Type-model	Slot x Pro-processor	SATA disk Memory <sup>6</sup>	SATA GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial intrusion port	Chassis switch	Floor stand	Internal Speaker	ENERGY STAR 6.0	Preload	Ann date (mm/yy)
10AH000JUS	3x4 i5-4570	4GBx1	1TB 7200	DVD		Intel 105	None	HD 8470	USB	None	Switch	Stand	Speaker	ES6.0	Win7 Pro64	07/13
10AH0042US	3x4 i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	02/14
10AH006HUS	3x4 i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 8570	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006JUS	3x4 i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	Stand	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006KUS	3x4 i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 ac	None	GT 620	None	None	None	Stand	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006BUS	3x4 i3-4150	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4400	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006DUS	3x4 i3-4150	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4400	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006FUS	3x4 i5-4590	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006EUS	3x4 i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006CUS	3x4 i3-4150	4GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4400	None	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006GUS	3x4 i7-4790	4GBx1	500G 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	Stand	None	ES6.0	Win7 P64 DG Win8.1	10/14

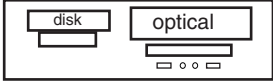
Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	<b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Intel Small Business Advantage • Nitro Pro
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution:</i> 2560x1600 (DP)@60Hz;1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz	
DP dongle	None	
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide	
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q85 Express Chipset</b>	
Front ports	Two USB 3.0, two optional USB 2.0, mic (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
PCle WLAN	<i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	<b>Security</b> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)
Speaker	Optional internal speaker for business audio (1 watt)	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Optional system floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	• SFF Pro (12.9L), business black color; metal case • (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal	
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader	
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet



# ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AH0015US	3x4	i5-4570	2GBx1	500G 3.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	07/30/13
10AH0016US	3x4	i5-4570	4GBx1	500G 3.5"	DVD	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH0017US	3x4	i5-4570	4GBx1	1TB 3.5"	DVD	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH001HUS	3x4	i5-4570	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH001JUS	3x4	i5-4570	4GBx1	1TB 3.5"	DVD±RW	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH0043US	3x4	i5-4570	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	03/11/14
10AH0054US	3x4	i5-4590	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	06/10/14
10AH005XUS	3x4	i5-4590	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10AH005YUS	3x4	i5-4590	4GBx1	1TB 3.5"	DVD±RW	8723BE	GT 620	None	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket														
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm, 2.5" wide <i>Some:</i> SATA 6.0Gb/s 7200 rpm, 3.5" wide														
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	<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, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 <i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Bluetooth	High Definition (HD) Audio, Realtek® ALC662 codec														
Audio	Internal speaker for business audio (1 watt)														
Speaker	None														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	Optional system floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader														
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

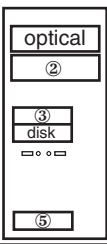
See footnotes for important warranty information

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(MSK1S-2) July 2014

# ThinkCentre M83 Mini Tower (10AK)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AK0004US	3x5	i5-4570	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	Win7 P64 DG	07/30/13
10AK0005US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	07/30/13
10AK0006US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	Win7 P64 DG	07/30/13
10AK0007US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	07/30/13
10AK000LUS	3x5	i3-4130	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	Win7 P64 DG	10/22/13
10AK000MUS	3x5	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	Win7 P64 DG	10/22/13
10AK000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	Win7 P64 DG	02/04/14

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, Processor in LGA1150 socket										Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , 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>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None													
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing													
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)										ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 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 TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced July 30, 2013, October 22, 2013, or February 4, 2014

# ThinkCentre M83 Mini Tower (10AK) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AK0012US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0013US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0015US	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0016US	3x5	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0019US	3x5	i7-4790	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0017US	3x5	i5-4590	4GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0018US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14

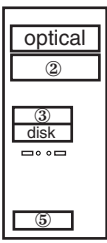
Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, Processor in LGA1150 socket										Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , 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>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None													
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing													
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)													
Limited Warranty	<b>3-years, limited onsite service</b> , 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 TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

# ThinkCentre M83 Mini Tower (10AG) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10AG0012US	3x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	ES6.0	None	Win7 P64 DG Win8.1 02/04/14
10AG001NUS	3x5	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG002BUS	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG002AUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0029US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0026US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0025US	3x5	i7-4790	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0028US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0027US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0024US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit  <b>Ready to install applications</b> (only some listed)		
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)		
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 7450</b> , 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>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Desktop Power Manager</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>		
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Mini Tower (25L), business black color, metal case</li> <li>• (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>• 24.69 lb (11.20 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)													
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>													
See footnotes for important warranty information												Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

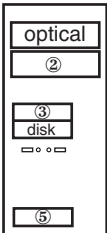
See footnotes for important warranty information

# ThinkCentre M83 Mini Tower (10AG) - ES 6.0 ( Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global	Preload	Ann date (mm/dd/yy)	
10AG000CUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	ES6.0	None	Win8 Pro64	07/30/13

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Windows® 8 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>● Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>										<b>Preloaded applications</b> (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Desktop Power Manager</li> <li>● Norton™ Studio</li> <li>● AccuWeather</li> <li>● Evernote®</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● ThinkVantage System Update</li> <li>● Lenovo Solution Center</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Skype™</li> <li>● Intel AppUp</li> <li>● Intel Small Business Advantage</li> <li>● Nitro Pro</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide													
Optical	DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i>													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>● Mini Tower (25L), business black color, metal case</li> <li>● (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>● 24.69 lb (11.20 kg) in maximum configuration</li> <li>● Toolless cover removal, adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
US model(s) announced July 30, 2013

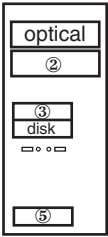
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(MSK1T-1) August 2013

# ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Additional Front Graphics	2nd serial port	Chassis intrusion switch	Key-board	ENERGY STAR 6.0	Global (G) GMP (P)	Ann date (mm/dd/yy)
10AG000PUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	07/30/13
10AG000QUS	3x5	i5-4570	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0 G P Win7 Pro64	07/30/13
10AG000RUS	3x5	i5-4570	4GBx1	500GB 7200	DVD	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	07/30/13
10AG000SUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	Finger	ES6.0 G P Win7 Pro64 (DG)	08/20/13
10AG000TUS	3x5	i5-4570	4GBx1	1TB 7200	DVD±RW	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	08/20/13
10AG000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	09/10/13
10AG001KUS	3x5	i5-4590	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0 G P Win7 Pro64	06/10/14
10AG001PUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 P64 DG Win 8.1	07/08/14
10AG001QUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	GT 620	None	None	Switch	USB	ES6.0 G P Win7 P64 DG Win 8.1	07/08/14

Positioning	<i>Mainstream enterprise stability and manageability</i>
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket
Implementation	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, Direct <sup>X</sup> ® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	<i>Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive</i> <i>Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</i>
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	<b>Intel Q85 Express Chipset</b>
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>
Bluetooth	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio (1.5 watt)
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	<i>Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo</i> <i>Some: Lenovo USB Fingerprint Keyboard (USB connector)</i>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>
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Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



<b>Preloaded operating system</b>
<i>Some: Windows® 7 Professional 64</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>
<b>Ready to install applications (only some listed)</b>
<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
<b>Preloaded applications (only some listed)</b>
<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>
<b>Security</b>
<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

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