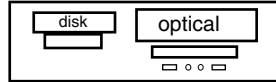


ThinkCentre M83 SFF Pro Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processors	Manageability	Intel Standard Manageability																																																												
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Core i3-4130</td> <td>2 / 4</td> <td>3.4 GHz</td> <td>3 MB</td> <td>DDR3-1600</td> <td>HD 4400</td> </tr> <tr> <td>Core i3-4150</td> <td>2 / 4</td> <td>3.5 GHz</td> <td>3 MB</td> <td>DDR3-1600</td> <td>HD 4400</td> </tr> <tr> <td>Core i5-4430</td> <td>4 / 4</td> <td>3 GHz / 3.2 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4460</td> <td>4 / 4</td> <td>3.2 GHz / 3.4 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4570</td> <td>4 / 4</td> <td>3.2 GHz / 3.6 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4590</td> <td>4 / 4</td> <td>3.3 GHz / 3.7 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4670</td> <td>4 / 4</td> <td>3.4 GHz / 3.8 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i7-4770</td> <td>4 / 8</td> <td>3.4 GHz / 3.9 GHz</td> <td>8 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i7-4790</td> <td>4 / 8</td> <td>3.6 GHz / 4 GHz</td> <td>8 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400	Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400	Core i5-4430	4 / 4	3 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4460	4 / 4	3.2 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4570	4 / 4	3.2 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4590	4 / 4	3.3 GHz / 3.7 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4670	4 / 4	3.4 GHz / 3.8 GHz	6 MB	DDR3-1600	HD 4600	Core i7-4770	4 / 8	3.4 GHz / 3.9 GHz	8 MB	DDR3-1600	HD 4600	Core i7-4790	4 / 8	3.6 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600	Intel Standard Manageability Trusted Platform Module, TCG 1.2-compliant Security chip Security features <ul style="list-style-type: none"> • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Optional Chassis intrusion switch 	
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Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo USB Fingerprint Keyboard (USB connector)																																																												
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm, 2.5" wide) or 1TB (7200 rpm, 3.5" wide) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s	Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																																																												
Optical	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: DVD-ROM SATA 1.5Gb/s Drive Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive	Mechanical	<ul style="list-style-type: none"> • 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 																																																												
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)	Floor Stand	Optional system floor stand for vertical orientation																																																												
Media reader	Optional 29-in-1 media reader, internal USB 2.0	Power supply	Some: 240 watts, autosensing Some: 240 watts, autosensing, 85% PSU																																																												
Graphics	Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support five independent displays; Max resolution: 3840x2160 (DP) @60Hz [HD 4x00]; 2560x1600 (DP) @60Hz [Intel HD]; 1920x1200 (VGA) @60Hz (Reduced Blanking) Some: AMD Radeon HD 8570 , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz Some: AMD Radeon™ HD 8470 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz Some: AMD Radeon™ HD 7450 , DirectX 11, 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 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	Limited warranty ³	Some: 3-years, limited onsite service / service upgrades available Some: 3-years, limited onsite service, OID (Onsite International Delivery) / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																																																												
DP cable	None	Preload	Preloaded operating system Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Ready to install applications (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • 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																																																												
Chipset	Intel Q85 Chipset	Environment	ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ULE Gold																																																												
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Accessories	For compatible accessories, please go to TC-AQP sheet																																																												
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 on optional graphic card on some models																																																														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																																														
IEEE 1394	None																																																														
Audio support	High Definition (HD) Audio, Realtek® ALC662 codec / Optional internal speaker for business audio (1 watt)																																																														
WLAN ¹³	Some: 11b/g/n, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi/BT 4.0, 2x2 Some: 11ac/a/b/g/n, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2																																																														
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																																														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®																																																														
Modem	None																																																														

See footnotes for more detailed information