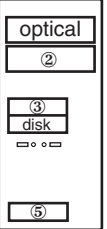


# ThinkCentre M83 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processors or Intel Pentium® Processor						<b>Manageability</b> Intel Standard Manageability Security chip Trusted Platform Module, TCG 1.2-compliant <b>Security features</b> <ul style="list-style-type: none"> <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> <li>• Power-on password</li> </ul> </li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	
	Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD	
	Pentium G3240	2 / 2	3.1 GHz	3 MB	DDR3-1333	Intel HD	
	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		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller						
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 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 <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide						
Optical	<i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive						
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)						
Media reader	Optional 29-in-1 media reader, internal USB 2.0						
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 five independent displays; <i>Maximum resolution:</i> 2560x1600 (DisplayPort) @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>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:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz <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 cable	None						
Chipset	<b>Intel Q85 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 on optional graphic card on some models						
Rear audio ports IEEE 1394	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) None						
Audio support	High Definition (HD) Audio, Realtek® ALC662 codec / Optional internal speaker for business audio (1 watt)						
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi/BT 4.0, 2x2						
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®						
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Some:</i> Lenovo USB Fingerprint Keyboard (USB connector)						
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo						
Mechanical	<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> 						
Power supply	<i>Some:</i> 280 watts, autosensing <i>Some:</i> 280 watts, autosensing, 85% PSU						
Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>						
Preload	<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 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Preloaded applications (only some listed)</li> <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>						
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						
Accessories	For compatible accessories, please go to TC-AQP sheet						

See footnotes for more detailed information