

# ThinkCentre M53 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop						Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> </ul> <p>M53 Tiny only:</p> <p>7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount &amp; optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration</p>																			
	<table border="1"> <thead> <tr> <th>Processor</th><th>Cores / Threads</th><th>Frequency (Max/Base)</th><th>Cache</th><th>Memory Types</th><th>Integrated Graphics</th></tr> </thead> <tbody> <tr> <td>Celeron J1800</td><td>2 / 2</td><td>2.58 / 2.41 GHz</td><td>1MB</td><td>DDR3L-1333</td><td>Intel HD</td></tr> <tr> <td>Pentium J2900</td><td>4 / 4</td><td>2.58 / 2.41 GHz</td><td>2MB</td><td>DDR3L-1333</td><td>Intel HD</td></tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>						Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	VESA mount	<p>Optional VESA mount bracket kit, supports VESA 75mm and 100mm</p>	
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Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD																						
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Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket						Floor Stand	<p>Optional system floor stand for vertical orientation</p>																			
Disk	<p>Some: 8GB or 16GB / DOM (Disk On Module) Card</p> <p>Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm</p> <p>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide</p>						Power supply	<p>65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)</p>																			
Optical	<p>Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide</p> <p>Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB</p> <p>Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB</p>						Limited warranty <sup>3</sup>	<p>Some: 1-year, depot service / service upgrades available</p> <p>Some: 1-year or 3-year, limited onsite service / service upgrades available</p> <p>Some: 3-year, limited onsite service, IWS (International Warranty Service<sup>9</sup>) / service upgrades available</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>																			
Onboard SATA Media reader	<p>Some: SATA 3.0Gb/s controller, one connectors on planar</p> <p>None</p>						Preload	<p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</p> <p>Some: Windows 7 Professional 64</p> <p>Some: Windows 8.1 64-bit</p> <p>Some: Windows 8.1 Pro 64-bit</p> <p>Some: Windows 8.1 with Bing 64-bit</p> <p><b>Ready to install applications (for Win7)</b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Web install applications (for Win8.1)</b></p> <ul style="list-style-type: none"> <li>• Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- For both Windows 7 and Windows 8.1:</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• Desktop Power Manager</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Reach</li> <li>• Lenovo SHAREit</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Nitro Pro</li> </ul> <p><b>- Only for Windows 7:</b></p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• View Management Utility</li> <li>• Lenovo Message Center Plus</li> </ul> <p><b>- Only for Windows 8.1:</b></p> <ul style="list-style-type: none"> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> <li>• Pokki</li> <li>• Hightail</li> </ul>																			
Graphics	<p><b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;</p> <p>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz</p>						Environment	<p>Some: Genuine Windows® Embedded Standard 7 (WES 7)</p> <p>Some: LeTOS (Lenovo Terminal Operating System, Linux-based)</p> <p><b>Preloaded applications (only some listed)</b></p> <p><b>- WES 7 only:</b></p> <ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client (RDP 8 support)</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Lenovo Thin Client Manager (LTM)</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul> <p><b>- LeTOS only:</b></p> <ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• AnyConnect VPN Client</li> </ul>																			
DP cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable						Chipset	<p><b>Intel System-on-Chip (SoC) platform</b></p>																			
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)						Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)																			
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port						Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																			
WLAN <sup>13</sup>	<p>Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1</p> <p>Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2</p> <p>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</p>						Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																			
Ethernet Modem	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®						Manageability Security chip	None																			
Manageability Security chip	None						Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</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>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>																			
Keyboard	<p>Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p>Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p>						Mouse	<p>Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																			
							Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																			