

ThinkCentre M93z Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® I Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors	Manageability	Intel Active Management Technology 9.0 (Intel AMT 9.0); Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)																																																																																									
	<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>Pentium G3220</td> <td>2 / 2</td> <td>3 GHz</td> <td>3 MB</td> <td>DDR3-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium G3240</td> <td>2 / 2</td> <td>3.1 GHz</td> <td>3 MB</td> <td>DDR3-1333</td> <td>Intel HD</td> </tr> <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 i3-4330</td> <td>2 / 4</td> <td>3.5 GHz</td> <td>4 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4430S</td> <td>4 / 4</td> <td>2.7 GHz / 3.2 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4440S</td> <td>4 / 4</td> <td>2.8 GHz / 3.3 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4460S</td> <td>4 / 4</td> <td>2.9 GHz / 3.4 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4570S</td> <td>4 / 4</td> <td>2.9 GHz / 3.6 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4570T</td> <td>2 / 4</td> <td>2.9 GHz / 3.6 GHz</td> <td>4 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4590S</td> <td>4 / 4</td> <td>3 GHz / 3.7 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i5-4670S</td> <td>4 / 4</td> <td>3.1 GHz / 3.8 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i7-4770S</td> <td>4 / 8</td> <td>3.1 GHz / 3.9 GHz</td> <td>8 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i7-4790S</td> <td>4 / 8</td> <td>3.2 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	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 i3-4330	2 / 4	3.5 GHz	4 MB	DDR3-1600	HD 4600	Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4440S	4 / 4	2.8 GHz / 3.3 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4570T	2 / 4	2.9 GHz / 3.6 GHz	4 MB	DDR3-1600	HD 4600	Core i5-4590S	4 / 4	3 GHz / 3.7 GHz	6 MB	DDR3-1600	HD 4600	Core i5-4670S	4 / 4	3.1 GHz / 3.8 GHz	6 MB	DDR3-1600	HD 4600	Core i7-4770S	4 / 8	3.1 GHz / 3.9 GHz	8 MB	DDR3-1600	HD 4600	Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600	<ul style="list-style-type: none"> Security chip Security features <ul style="list-style-type: none"> Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) Power-on, Admin, Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Optional Chassis intrusion switch
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Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo	Mouse	Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																																																																																									
Mechanical	<ul style="list-style-type: none"> Business black color Toolless back cover, stand, disk, optical drive, memory removal Support VESA mount (100mm) <table border="1"> <thead> <tr> <th>Optional Stand</th> <th>Dimensions (WxDxH)</th> <th>Weight</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td>Non-touch model(s) with frame stand:</td> <td>22.4 X 3.6 X 17.6 (inch); 568 X 92.5 X 447.3 (mm)</td> <td>21.3 lb; 9.68 kg</td> <td rowspan="2">Tilt: 10° to 45° back</td> </tr> <tr> <td>Multi-touch model(s) with frame stand:</td> <td>22.4 X 3.7 X 17.6 (inch); 568 X 93.1 X 447.3 (mm)</td> <td>24.7 lb; 11.22 kg</td> </tr> <tr> <td>Non-touch model(s) with monitor stand:</td> <td>22.4 X 9.7 X 17.4 to 21.7 (inch); 568 X 247 X 441.2 to 551.2 (mm)</td> <td>25.5 lb; 11.58 kg</td> <td rowspan="2">Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</td> </tr> <tr> <td>Multi-touch model(s) with monitor stand:</td> <td>22.4 X 9.7 X 17.4 to 21.7 (inch); 568 X 247 X 441.2 to 551.2 (mm)</td> <td>28.9 lb; 13.12 kg</td> </tr> </tbody> </table>	Optional Stand	Dimensions (WxDxH)	Weight	Adjustments	Non-touch model(s) with frame stand:	22.4 X 3.6 X 17.6 (inch); 568 X 92.5 X 447.3 (mm)	21.3 lb; 9.68 kg	Tilt: 10° to 45° back	Multi-touch model(s) with frame stand:	22.4 X 3.7 X 17.6 (inch); 568 X 93.1 X 447.3 (mm)	24.7 lb; 11.22 kg	Non-touch model(s) with monitor stand:	22.4 X 9.7 X 17.4 to 21.7 (inch); 568 X 247 X 441.2 to 551.2 (mm)	25.5 lb; 11.58 kg	Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°	Multi-touch model(s) with monitor stand:	22.4 X 9.7 X 17.4 to 21.7 (inch); 568 X 247 X 441.2 to 551.2 (mm)	28.9 lb; 13.12 kg																																																																									
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Memory	16GB max, PC3-12800 1600MHz DDR3* , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller	Power supply	150 watts, autosensing, 85% PSU																																																																																									
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) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	Limited warranty ³	Some: 3-year, depot repair service Some: 1-year or 3-years, limited onsite service Some: 3-years, limited onsite service, OID (Onsite International Delivery) / For Lenovo service upgrade options, please go to S-TC sheet																																																																																									
Optical	Some: DVD, SATA 1.5Gb/s, 12.7mm high Some: DVD burner, SATA 1.5Gb/s, 12.7mm high	Preload	Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> Rescue and Recovery™ Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Device Experience ThinkVantage AutoLock Desktop Power Manager View Management Utility Lenovo Solution Center Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Skype™ Microsoft Office preloaded; purchase a product key to activate Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) Evernote Lenovo Solutions for Small Business Nitro Pro 																																																																																									
Media reader	Optional 11-in-1 media card reader	Environment	EEPEAT™ Gold rating; ENERGY STAR® 6.0-compliant; TCO Certified Edge; TUV Green Mark; ULE Gold; EuP 2013; Cisco EnergyWise compatible; GREENGUARD® certified; RoHS-compliant																																																																																									
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11, external monitor support via DisplayPort™, supports dual independent display; Max resolution: 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]	Accessories	For compatible accessories, please go to TC-AQP sheet																																																																																									
Display	23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector																																																																																											
Light sensor	Optional ambient light sensor																																																																																											
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch																																																																																											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off																																																																																											
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button																																																																																											
Chipset	Intel Q87 Chipset																																																																																											
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)																																																																																											
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)																																																																																											
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)																																																																																											
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3W x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified																																																																																											
WLAN ¹³	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, Intel vPro technology support, 2x2 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, Intel vPro technology support, 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®																																																																																											

See footnotes for more detailed information