## ThinkCentre M93/M93p Tower Platform Specifications

Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processors						Manageability	Intel Active Management Technology 9.0 (Intel AMT 9.0);			
	Processor Cores / Frequency Cache Memory Types Integrated							Intel vPro technology on some models (require choosing a vPro-support Wi-Fi			
		Threads	(Base/Max)		, ,,	Graphics	Security chip		o enable vPro function through v latform Module, TCG 1.2-compl		
	Core i3-4130	2/4	3.4 GHz	3 MB	DDR3-1600	HD 4400			ck to secure both cover and	Administrator password	
	Core i5-4570		3.2 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600	-	entire sy	ystem to fixed object:	<ul> <li>Hard disk password</li> </ul>	
	Core i5-4590 Core i5-4670	4/4	3.3 GHz / 3.7 GHz 3.4 GHz / 3.8 GHz	6 MB 6 MB	DDR3-1600 DDR3-1600	HD 4600 HD 4600	-		k loop (in rear for opt padlock) ty slot (in rear for optional	<ul><li>Boot sequence control</li><li>Boot without keyboard and mouse</li></ul>	
	Core i7-4770		3.4 GHz / 3.9 GHz	8 MB	DDR3-1600 DDR3-1600	HD 4600	-		gton® MicroSaver® cable)	Individual USB port disablement	
	Core i7-4770	4/8	3.6 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600	_		on password	<ul> <li>Optional Chassis intrusion switch</li> </ul>	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets						Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), Lenovo logo Enhanced Optical USB Mouse, black, Lenovo logo			
Disk  Optical  Onboard SATA  Media reader  Graphics	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  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  Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)  Optional 29-in-1 media reader, internal USB 2.0  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 monitors;  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						Power supply Limited warranty	(WxDxH) 6.89" X 17.41" X 16.32"; 175mi     24.69 lb (11.20 kg) in maximum configura     Toolless cover removal, adapter retentior     Toolless disk, optical drive removal Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, opt reader 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 1: half-length, full-height, PCle 3.0 x16 Slot 2: half-length, full-height, PCle 2.0 x1 Slot 3: half-length, full-height, PCle 2.0 x1 Slot 4: half-length, full-height, 32-bit PCl 2.0  varranty³ Some: 3-years, limited onsite service / Some: 3-years, limited onsite service, 0 service upgrades available For Lenovo service upgrade options, pleas  Preloaded operating system Some: No operating system Some: Windows® 7 Professional 32		metal case mm X 442.3mm X 414.5mr optical uration on  al  (6 (75w max)) (16 (x4 elec, 75w max)) (2.3)  / service upgrades available , OID (Onsite International Delivery) /	
DP cable								р	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 7 Professional 64  Windows 7 Professional 64  ThinkVantage® Product Recovery  ThinkVantage System Update	listed)	
Chipset	Intel Q87 Chipset						†				
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm),						1	p	preinstalled through downgrade • ThinkVantage Communication rights in Windows 8.1 Pro 64-bit • Desktop Power Manager		
Rear ports	headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional PS/2 ports (keyboard/mouse), additional VGA, DisplayPort, or HDMI on optional graphic card on some models							ri		<ul> <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</li> </ul>	
Rear audio ports IEEE 1394	Line-in (stereo, None	3.5mm), I	ine-out (stereo, 3.5m	nm), micro	phone-in (stered	o, 3.5mm)				(30 days of virus definitions)  • Adobe® Reader®	
Audio support		(HD) Audi	io, Realtek ALC662 /	optional i	nternal speaker	(1watt )	1			<ul> <li>Skype™</li> </ul>	
WLAN <sup>13</sup>	Some: 11b/g/n, Some: 11b/g/n, Some: 11b/g/n, Wi-Fi + Some: 11a/b/g/ Wi-Fi + Some: 11b/g/n, Some: 11b/g/n/	PCIe Ha PCIe Ha PCIe Ha Bluetooth In, PCIe H Bluetooth PCIe Ha Og/n, PCI	If Mini Card, Realtek If Mini Card, Intel Ce If Mini Card, Intel Ce combo adapter, 2x2 Italf Mini Card, Intel C combo adapter, Intel Combo adapter, Intel If Mini Card, Intel Wi e Half Mini Card, Intel o adapter, Intel v	RTL8723 entrino® Wir entrino Wir Centrino A el vPro tec reless-N 7 el Dual Ba	BE, Wi-Fi/BT 4.0 ireless-N 105, 1x eless-N 2230, dvanced-N 6235 hnology support '260, Wi-Fi/BT 4. Ind Wireless-AC	0, 1x1 x1 5, , 2x2 .0, 2x2				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	
Bluetooth™ Ethernet Modem	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN® None						Environment	EPEAT™ ( GREENG	· · · · · · · · · · · · · · · · · · ·	d Windows OS); o EnergyWise compatible; ULE Gold	
							Accessories	For compa	atible accessories, please go to	TC-AQP sheet	