ThinkCentre M93/M93p SFF Pro Platform Specifications

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Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processors	Manageability	Intel Active Management Technology 9.0 (Intel AMT 9.0) Trusted Platform Module, TCG 1.2-compliant
	ProcessorCores / ThreadsFrequency (Base/Max)CacheMemory TypesIntegrater GraphicsCore i5-46704 / 43.4 GHz / 3.8 GHz6 MBDDR3-1600HD 4600		One lock to secure both cover and entire system to fixed object: Administrator password Hard disk password
	Core i5-4570 4/4 3.2 GHz/3.6 GHz 6 MB DDR3-1600 HD 4600	⊣ I	-Padlock loop (in rear for opt padlock) • Boot sequence control
	Core i5-4590 4 / 4 3.3 GHz / 3.7 GHz 6 MB DDR3-1600 HD 4600	⊣ I	-Security slot (in rear for optional Kensington® MicroSaver® cable) • Boot without keyboard and mouse • Individual USB port disablement
	Core i7-4770 4 / 8 3.4 GHz / 3.9 GHz 8 MB DDR3-1600 HD 4600		Power-on password Optional Chassis intrusion switch
	Core i7-4790 4 / 8 3.6 GHz / 4 GHz 8 MB DDR3-1600 HD 4600		Preferred Pro USB Keyboard (USB connector), Lenovo logo
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Mechanical	Enhanced Optical USB Mouse, black, Lenovo logo • SFF Pro (12.9L), business black color; metal case
Disk	Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm 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, 2.5" wide	Mechanicai	 (WxDxH) 13.31 X 14.76 X 4.02 38 mm X 375 mm X 102 mm 17.20 lb (7.8 kg) in maximum configuration Toolless cover removal, adapter retention
Optical	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: DVD-ROM SATA 1.5Gb/s Drive		Toolless disk and optical drive removal Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Toolless disk and optical drive removal Bay 2: 3.5", 1" high, internal, std disk
Onboard SATA	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,		Bay 3: 2.5", N/A, internal, optional or come with opt 2.5" 2nd disk
Media reader	one eSATA connector (SATA 6.0Gb/s) Optional 29-in-1 media reader, internal USB 2.0		Baý 4: 3.5", 0.5" high, external, opt reader Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3 Optional system floor stand for vertical orientation
Graphics	Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along wit discrete graphics to support five independent monitors;		
	Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)	Power supply	240 watts, autosensing, 85% PSU
	Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 wat Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz	Limited warranty ³	Some: 3-years, limited onsite service / service upgrades available 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available
	Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 wat		For Lenovo service upgrade options, please go to S-TC sheet
	Max resolution: 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 85H 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) @ 85H	z ¹ Preload	Preloaded operating system Some: Windows 7 Professional 32 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 Some: Windows 7 Professional 64 ThinkVantage® Product Recovery
DP cable	None		preinstalled through downgrade • ThinkVantage System Update rights in Windows 8.1 Pro 64-bit • ThinkVantage Communication Utility
Chipset	Intel Q87 Chipset		Desktop Power Manager
Front ports Rear ports Rear audio ports IEEE 1394	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), 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, additional VGA, DisplayPort, or HDMI on optional graphic card on some models Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) None		 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™
Audio support	High Definition (HD) Audio, Realtek® ALC662 codec / internal speaker (1watt)		 Microsoft Office preloaded;
WLAN ¹³	Some: 11b/g/n, PCle Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 Some: 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n, PCle Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi/BT 4.0, 2x2 Some: 11ac/a/b/g/n, PCle Half Mini Card, Intel Dual Band Wireless-AC 7260,		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	Wi-Fi + BT combo adapter, 2x2 Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	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
Modem	None	Accessories	For compatible accessories, please go to TC-AQP sheet