ThinkCentre® M81 Tower (5048) - ENERGY STAR® 5.0 - II

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Global Educ	Win7 preload
5048-E7U	4x4	Pentium G620	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	ΝN	Pro 64
5048-E8U	4x4	Pentium G840	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	NN	Pro 64
5048-E6U	4x4	Core i5-2400	4GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	NN	Pro 64
5048-E9U	4x4	Core i3-2120	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	NN	Pro 64
5048-F1U	4x4	Core i3-2120	4GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	ΝN	Pro 64

- ◆These models have a 3-year limited warranty
 ◆These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

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Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system Genuine Windows® 7 Professional 64 Preloaded applications²0 (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe Reader® • Skype™ for Windows			
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Microsoft® Office 2010 preloaded; purchase product key to activate.			
Graphics DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX [®] 10.1, one VGA, one DisplayPort [™] , supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @ 60Hz None	 purchase product key to activate Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW) 			
Disk		_			
Optical SATA controller SATA cables eSATA port	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar None				
Media reader	None				
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O				
Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	Security • Security chip (see information on left)			
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Individual USB port disablement EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified			
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3	RoHS-compliant Supports ThinkVantage Technologies			
	Slot 4: half-length, full-height, 32-bit PCI 2.3	For compatible accessories,			
Limited Warranty ¹	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	 — please go to O-M81 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet 			