

ThinkCentre E93z Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processors						Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo Slim New F5 USB Keyboard (USB connector), black 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															
	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	Mouse																
	Celeron G1820	2 / 2	2.7 GHz	2 MB	DDR3-1333	Intel HD																	
	Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD																	
	Pentium G3420	2 / 2	3.2 GHz	3 MB	DDR3-1600	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 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 i5-4670S	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																	
Memory	16GB max, PC3-12800 1600MHz DDR3* , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller						Mechanical	- Business black color - Support VESA mount (100mm) <table><tr><th colspan="2">Dimensions (WxDxH) and Weight (Maximum)</th></tr><tr><td><i>Non-touch models</i></td><td>21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm; 14.55 lb (6.6 kg) in maximum configuration</td></tr><tr><td><i>Touch models</i></td><td>21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm; 16.31 lb (7.4 kg) in maximum configuration</td></tr><tr><th colspan="2">Optional Stand</th></tr><tr><td><i>With Frame Stand</i></td><td>Adjustable between 10° and 65° (Tilt)</td></tr><tr><td><i>With Monitor Stand</i></td><td>Adjustable between -5° and 45° (Tilt)</td></tr><tr><td><i>With UltraFlex Stand</i></td><td>Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°</td></tr></table>		Dimensions (WxDxH) and Weight (Maximum)		<i>Non-touch models</i>	21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm; 14.55 lb (6.6 kg) in maximum configuration	<i>Touch models</i>	21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm; 16.31 lb (7.4 kg) in maximum configuration	Optional Stand		<i>With Frame Stand</i>	Adjustable between 10° and 65° (Tilt)	<i>With Monitor Stand</i>	Adjustable between -5° and 45° (Tilt)	<i>With UltraFlex Stand</i>	Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°
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Disk	Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm Some: 500GB (5400 rpm, 2.5" wide) or 1TB (5400 rpm, 2.5" 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						Power supply	Some: 150 watts, autosensing, 85% PSU Some: 180 watts, autosensing, 92% PSU															
Optical	Some: DVD, SATA 1.5Gb/s, 12.7mm high Some: DVD burner, SATA 1.5Gb/s, 12.7mm high						Limited warranty ³	Some: 1-year or 3-years, limited onsite service / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet															
Media reader	Optional 11-in-1 media card reader						Preload	Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64 Ready to install applications (only some listed) - Rescue and Recovery™ - Password Manager Preloaded applications (only some listed) - ThinkVantage® Product Recovery - ThinkVantage System Update - ThinkVantage Communication Utility - ThinkVantage Device Experience - ThinkVantage AutoLock - Desktop Power Manager - 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™ - Microsoft Office preloaded; purchase a product key to activate - Cyberlink PowerDVD (DVD±RW, DVD) - Cyberlink Power2Go (DVD±RW) - Cyberlink PowerProducer (DVD±RW) - Evernote - Lenovo Solutions for Small Business - Nitro Pro Some: Windows 8 64-bit Some: Windows 8.1 64-bit Some: Windows 8 Pro 64-bit Some: Windows 8.1 Pro 64-bit Web install applications (only some listed) - Password Manager Preloaded applications (only some listed) - ThinkVantage System Update - ThinkVantage AutoLock - Desktop Power Manager - View Management Utility (for Windows 8 only) - Lenovo Cloud Storage by SugarSync (for Windows 8 only) - Lenovo Solution Center - Lenovo Support - Lenovo Companion - Norton Internet Security (30 days of virus definitions) - Skype™ - Microsoft Office preloaded; purchase a product key to activate - Cyberlink PowerDVD (DVD±RW, DVD) - Cyberlink Power2Go (DVD±RW) - Cyberlink PowerProducer (DVD±RW) - Evernote® - Lenovo Solutions for Small Business - Nitro Pro - AccuWeather - Norton™ Studio - Pokki (for Windows 8.1 only) - Hightail (for Windows 8.1 only)															
Graphics	Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11.1, external monitor support via HDMI, supports dual independent display; Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz Some: NVIDIA GeForce® GT 720A , PCI Express® x16, 1GB memory, DirectX® 11, external monitor support via HDMI, supports dual independent display; Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz																						
Display	21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector																						
Light sensor	None																						
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	Monitor mode / computer mode button, volume up/down buttons, and power button																						
Chipset	Intel B85 Chipset																						
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in																						
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader																						
PCIe Mini Card	Two PCI Express® Mini Card slots																						
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two 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: 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, 2x2																						
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																						
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®																						
Manageability	None																						
Security chip	None																						
Security features	- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) - Power-on and Administrator password - Hard disk password - Boot sequence control - Boot without keyboard and mouse - Individual USB port disablement						Environment	ENERGY STAR® 6.0-compliant; EuP 2013; GREENGUARD®; RoHS-compliant															
							Accessories	For compatible accessories, please go to TC-AQP sheet															

See footnotes for more detailed information