

# Lenovo K450e Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3, i5, i7 processors or Pentium® processors	Mechanical	<ul style="list-style-type: none"> <li>Mini Tower 25L (chassis), Metal Gray (metal brush effect)</li> <li>Dimensions (WxDxH): 9.4" x 23.2" x 21.9"; 240 mm x 590 mm x 555 mm</li> <li>Weights (net weight): from 24.6 lb (11.2 kg), vary by configuration</li> <li>Tool-free for cover, disk, optical drive removal</li> <li>Bay 1: 5.25", 1.6" high, access, optical</li> <li>Bay 2: 3.5", 1" high, no access, standard disk</li> <li>Bay 3: 3.5", 1" high, no access, optional disk</li> <li>Slot 1: half-length, full-height, PCIe x16 (Version 3.0)</li> <li>Slot 2: half-length, full-height, PCIe x1 (Version 2.0)*</li> <li>Slot 3: half-length, full-height, PCIe x1 (Version 2.0)</li> <li>Slot 4: half-length, full-height, PCIe x1 (Version 2.0)</li> <li>Slot 5: PCIe Mini Card x1 (Version 2.0, for optional WLAN)</li> <li>* Some dual slot design graphics adapters may occupy adjacent PCIe x1 slot</li> </ul>																
	<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>Core i5-4460</td> <td>4 / 4</td> <td>3.2 GHz / 3.4 GHz</td> <td>6 MB</td> <td>DDR3-1600</td> <td>HD 4600</td> </tr> <tr> <td>Core i7-4790</td> <td>4 / 8</td> <td>3.6 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	Core i5-4460	4 / 4	3.2 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600	Core i7-4790	4 / 8	3.6 GHz / 4 GHz	8 MB
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Core i7-4790	4 / 8	3.6 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600														
Memory	32GB max, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets, supports dual channel	Power supply	<ul style="list-style-type: none"> <li>Some: 280 watts, manual switch, universal</li> <li>Some: 280 watts, EnergyStar 6.0, autosensing, universal</li> <li>Some: 450 watts, autosensing, universal</li> <li>Some: 450 watts, EnergyStar 6.0, autosensing, universal</li> </ul>																
Disk	<ul style="list-style-type: none"> <li>Some: Hard Disk Drive, SATA 6.0Gb/s, 3.5" wide, 7200 rpm</li> <li>Some: Solid State Hybrid Drive (SSHD) with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide, 7200 rpm</li> </ul>	Limited warranty	<b>1-year, limited onsite service</b> / service upgrades available																
Optical	<ul style="list-style-type: none"> <li>Some: Super Multi-Burner, DVD disk recordable</li> <li>Some: Blu-ray™ burner, Blu-ray and DVD disk recordable</li> </ul>	Preload	<b>Preloaded operating system</b> Windows® 8.1 64-bit <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>Lenovo® Rescue System</li> <li>Driver and Application Installation</li> <li>Lenovo Support</li> <li>Lenovo Solution Center</li> <li>Lenovo Companion</li> <li>McAfee® LiveSafe™ (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Nitro Pro</li> </ul>																
Onboard SATA	SATA 6.0Gb/s controller (in chipset), four SATA connectors (SATA 6.0Gb/s), one eSATA connector (SATA 3.0Gb/s)	Environment	RoHS-compliant																
Media reader	Optional 7-in-1 media reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS Pro)																		
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, one HDMI, supports two independent displays; <ul style="list-style-type: none"> <li>Some: <b>NVIDIA® GeForce® GT 720, 2GB DDR3</b>, PCIe 3.0 x16 adapter, DirectX 11, one VGA, one HDMI</li> <li>Some: <b>NVIDIA GeForce GTX 750, 2GB GDDR5</b>, PCIe 3.0 x16 adapter, occupies two slots, DirectX 11, one DVI-I, one HDMI</li> </ul>																		
Chipset	<b>Intel B85 Chipset</b>																		
Front ports	Two USB 3.0 (one is always on charging), microphone (3.5mm), headphone (3.5mm)																		
Rear ports	Two USB 3.0, two USB 2.0, ethernet (RJ-45), one VGA, one HDMI, additional VGA, DVI-D, DisplayPort, or HDMI on discrete graphics on some models *Onboard VGA and HDMI are unavailable on discrete models																		
Rear audio ports	Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), center/low frequency output (3.5mm), rear surround (3.5mm), S/PDIF out																		
IEEE 1394	None																		
Audio support	High Definition (HD) Audio, Realtek ALC892, supports 7.1 surround sound																		
WLAN	<ul style="list-style-type: none"> <li>Some: 11/b/g/n wireless, PCIe Half Mini Card, 1x1</li> <li>Some: 11ac wireless, PCIe Half Mini Card, Wi-Fi + Bluetooth 4.0 combo, 1x1</li> <li>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</li> </ul>																		
Bluetooth™	One gigabit ethernet port, Realtek RTL8111F-VB																		
Ethernet	None																		
Modem	None																		
Security features	<ul style="list-style-type: none"> <li>Power-on password</li> <li>Administrator password</li> </ul>																		
Keyboard	Full-size keyboard (USB connector), Fn keys, black																		
Mouse	Lenovo Optical Mouse (USB connector)																		

See footnotes for more detailed information

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