

# ThinkPad E450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory speed	Processor Graphics		Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400		None	
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500		Camera	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500		HD720p resolution, fixed focus	
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB	HD5500		Audio support			
										HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Graphics	Intel HD Graphics in processor only, or AMD Radeon R5 M240 Graphics, 1GB DDR3 memory, AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI) @60Hz								Keyboard	6-row, spill-resistant, multimedia Fn keys	
									UltraNav™ ThinkLight™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset Memory	Intel SoC (System on Chip) platform 16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM</i> : Trusted Platform Module, TCG 1.2-compliant <i>Soft</i> : Software TPM enabled	
									vPro Fingerprint reader NFC	None None None	
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								Battery type	Li-Ion 6-cell (47Wh)	
									Battery life AC adapter	6-cell (47Wh): up to 9.0 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)	
Multi-touch	Some: supports 10-finger gesture								Preload	Some: No operating system	
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory									Some: Windows® 7 Professional 64 Some: Windows 8.1 Pro 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Optical M.2 SSD	None None								<ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo SHAREit</li> <li>Lenovo Companion</li> <li>ThinkVantage System Update</li> <li>Evernote</li> <li>Maxthon Cloud Browser</li> <li>Norton Studio</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Norton Internet Security (30 days of virus definitions)</li> </ul>		
Ethernet Bluetooth™	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								<ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo SHAREit</li> <li>Lenovo Companion</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Norton Internet Security (30 days of virus definitions)</li> </ul>		
WLAN	One of the following, configurable by model: <ul style="list-style-type: none"> <li>Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card</li> <li>Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card</li> <li>RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card</li> <li>BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card</li> </ul>								Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64		
WWAN	None								<ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo SHAREit</li> <li>ThinkVantage Product Recovery</li> <li>Rescue and Recovery™</li> </ul>		
SIM card	None								Some: Windows 10 Pro 64		
Smart Card Read ExpressCard	None None								<ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo Companion</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>McAfee LiveSafe (30 days of virus definitions)</li> </ul>		
Dimensions	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm								Limited warranty		
Weight	6-cell None Touch: from 4.00 lb (1.81kg)								1-year - depot repair service / service upgrades available		
Case color	Graphite Black								Environment		
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								EPEAT™ Gold; ENERGY STAR®; RoHS-compliant		

See footnotes for more detailed information

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