

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) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory speed	Processor Graphics		Monitor cable	None
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400		Camera	HD720p resolution, fixed focus
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500		Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500			
i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB	HD5500					
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™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
									ThinkLight™	None	
									Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>Some:</i> Trusted Platform Module, TCG 1.2-compliant	
									vPro	None	
Chipset	Intel SoC (System on Chip) platform								Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								NFC	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	6-cell (47Wh): up to 9.0 hr	
									AC adapter	<i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
Multi-touch	<i>Some:</i> supports 10-finger gesture								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory									<ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • PC Device Stage • Weather Channel • Evernote • Maxthon Cloud Browser • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions) 	
Optical	None										
M.2 SSD	None										
Ethernet	Intel WGI218V Gigabit Ethernet Connection										
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
WLAN	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card 										
WWAN	None										
SIM card	None								Limited warranty	1-year - depot repair service / service upgrades available	
Smart Card Read	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
ExpressCard	None										
Dimensions	<i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm										
Weight	<i>6-cell None Touch:</i> from 4.00 lb (1.81kg)										
Case color	Graphite Black										
Case Material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										

See footnotes for more detailed information

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