

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 None			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory speed	Processor Graphics					
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400					
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500					
	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			
Chipset	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad			
									ThinkLight™	None			
Memory									Security	Power-on password, hard disk password, supervisor password, security keyhole			
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								Security chip	TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled			
									vPro	None			
Multi-touch	Some: supports 10-finger gesture								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor			
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								NFC	None			
Optical	None								Battery type	Li-Ion 6-cell (47Wh)			
M.2 SSD	None								Battery life	6-cell (47Wh): up to 9.0 hr			
Ethernet	Intel WGI218V Gigabit Ethernet Connection								AC adapter	Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™			
WLAN	One of the following, configurable by model: • 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											Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • Evernote • Maxthon Cloud Browser • Norton Office • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions)	
WWAN	None												
SIM card	None												
Smart Card Read	None												
ExpressCard	None												
Dimensions	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm									Some: Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions)			
Weight	6-cell None Touch: from 4.00 lb (1.81kg)												
Case color	Graphite Black												
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic												
Limited warranty									1-year - depot repair service / service upgrades available				
Environment									EPEAT™ Gold; ENERGY STAR®; RoHS-compliant				

Model	20DC00C8++
Product	ThinkPad E450
Region	EMEA
Machine Type	20DC
TopSeller	TopSeller
Processor	Core i3-5005U (2C, 2.0GHz, 3MB)
vPro	No
Graphics	Integrated Intel HD Graphics 5500
Memory	4GBx1
Display	14" HD (1366x768)
Multi-touch	None
Storage	500GB 7200rpm
Optical	None
WLAN + Bluetooth	Intel 3160 ac, 1x1 + BT4.0
WWAN	None
SIM Card	None
Color	Black
Case Material	PC/ABS
Camera	720p
Keyboard	Non-backlit
Fingerprint Reader	Fingerprint Reader
NFC	None
TPM	dTPM 1.2
Battery	6-cell (47Wh)
Power Adapter	45W
Operating System	Windows 10 Pro 64
Warranty	1-year, Depot
Global	No
Ann Date (mm/yy)	12/15



