

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Multicard Reader Ports Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector Monitor cable None Camera Some: 0.3-megapixel, fixed focus Some: HD720p resolution, fixed focus Audio support HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack											
	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 UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC											
Chipset	Intel SoC (System on Chip) platform																			
Memory	16GB max* / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets																			
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																			
Multi-touch	Some: supports 10-finger gesture																			
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								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 • 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)											
Optical M.2 SSD	None None																			
Ethernet	Intel WGI218V Gigabit Ethernet Connection																			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																			
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																			
WWAN	None								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 Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions)											
SIM card	None																			
Smart Card Read ExpressCard	None None																			
Dimensions	None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm																			
Weight	6-cell None Touch: from 4.00 lb (1.81kg)																			
Case color	Graphite Black								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)											
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		20DC009Bxx
Product		ThinkPad E450
Region		EAST
Machine Type		20DC
TopSeller		TopSeller
Processor		Core i3-4005U (2C, 1.7GHz, 3MB)
vPro		No
Graphics		Integrated Intel HD Graphics 4400
Memory		4GBx1
Display		14" HD (1366x768)
Multi-touch		None
Storage		500GB (8GB) SSHD 5400rpm
Optical		None
WLAN + Bluetooth		Intel 7265 ac, 2x2 + 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 8.1 64-bit
Warranty		1-year, Depot
Global		No
Ann Date (mm/yy)		03/15



