ThinkPad T450 Platform Specifications

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor								Dimensions ³	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm			
	Processor		# of	Base	Max Turbo	Cache	Memory	Processor	Weight ²	14.0" Touch (V	<i>ŴxDxH):</i> 13.35" x 9. No + 3-cell	15" x 0.91"; 339mr	n x 232.5mm x 23mm 3-cell + 6-cell
	Number	Cores	Threads	Frequency	Frequency	Odono	Types	Graphics	Wolgin	Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-4030U	ļ		1.9 GHz	-	змв		Intel HD Graphics 4400		Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.21 lb / 1.91 kg 4.52 lb / 2.05 kg
	i5-4300U i3-5010U			1.9 GHz 2.1 GHz	2.9 GHz -		1	4400	Case material	Display cover:			
	i5-5200U i5-5300U	2	4	2.1 GHZ 2.2 GHz 2.3 GHz	2.7 GHz		DDR3L-1600	Intel HD Graphics	Odse material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic			
	i7-5500U	1		2.3 GHz	3 GHz		_	5500	Smart card reade	r Optional: Sma	art card reader		
	i7-5600U			2.6 GHz	3.2 GHz	4MB			Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45),			
Graphics	Intel HD Graphics 4400 or 5500 in processor,									Dock connector (integrated models only)			
	supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity,								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Display	dual-channel capable, two 204-pin SO-DIMM sockets Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 200 nits, 16:0 aspect ratio, 7004, acceptant in IDS								Security Security chip ThinkEngine vPro (optional) Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures Intel vPro Technology optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Multi-touch (opt)	300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								Max battery life ¹⁰	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™												
Cicrago										Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	
										Battery life	10.08 hr	14.78 hr	19.78 hr
M.2 SSD (opt)	Some: SSHD with 8GB NAND flash memory 2 SSD (opt) Single-sided M.2 SSD, via M.2 card slot								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Optical	None								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Pro 64 Lenovo Solution Center • Lenovo Solution Center • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)			
Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)								1				
	vPro model: Intel Ethernet Connection I218-LM (Clarkville)												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								-				
WLAN ⁴	One of the following, configurable by model: 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only) 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card (WE only) 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card												
WWAN (optional)	 One of the following, configurable by model: Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE only) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card 												
									Limited warranty ¹²	2 One of the following, configurable by model: • 1-year depot repair service			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider							er		 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) 			
									Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant			