ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation I	ntel® Co	re™ i3 / i5 o	r 5th Gene	ration	Intel Core i3	/ i5 / i7 Processor	Smart card reade	er Optional: Smart card reader			
	Processor # of	# of	Base	Max Turbo Frequency	Cache	N4	Processor Graphics Intel HD Graphics	Media reader Ports	4- ⁱ n-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
	i5-4300U i3-5010U		1.9 GHz 2.1 GHz	2.9 GHz	3MB		4400	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			
	i5-5200U 2 i5-5300U i7-5500U	4	2.2 GHz 2.3 GHz 2.4 GHz	2.7 GHz 2.9 GHz 3 GHz		DDR3L-1600	Intel HD Graphics 5500	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
	i7-5600U		2.6 GHz	3.2 GHz	4MB			Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant			
Graphics	Intel HD Graphics 4400 or 5500 in processor, 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)						1, 2, 7	ThinkEngineDelivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measuresvPro (optional)Intel vPro TechnologyFingerprint reader Optional:Fingerprint reader on the keyboard bezel, swipe sensor				
Chipset Memory	Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) Max battery life ¹⁰ Models 3-cell + 3-cell 3-cell + 6-cell 48Wh 3-cell + 6-cell 72Wh				
Display	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,							AC adapter	Battery life 10.08 hr 14.78 hr 19.78 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
Multi-touch (opt)	250 nits, Capacitive-type	16:9 as multi-tou	pect ratio, 4 ch, support	00:1 contra s 10-finger	ast rati gestu	o re, 212.5 nits	;	Preload	Windows® 7 Professional 64Some: Windows 8.1 64-bitpreinstalled through downgradeSome: Windows 8.1 Pro 64-bitrights in Windows 8.1 Pro 64-bit• Lenovo Solution Center			
Storage M.2 SSD <i>(opt)</i> Optical	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™ Some: SSHD with 8GB NAND flash memory Single-sided M.2 SSD, via M.2 card slot None						ovable,		 Lenovo Solution Center Lenovo SHAREit Lenovo SHAREit Lenovo Companion ThinkVantage Product Recovery™ Rescue and Recovery™ ThinkVantage System Update PC Device Stage Norton Studio Microsoft Office preloaded; 			
Ethernet Bluetooth™	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						oter	-	 Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) 			
WLAN⁴	 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-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card 						er, M.2 card hly) 2 card (WE only)	Norton™ Internet Security (30 days of virus definitions) Limited warranty ¹² One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service				
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 							Environment	 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, IWS (International Warranty Service¹⁷) EPEAT[™] Gold (US) or EPEAT Silver (WE); ENERGY STAR[®] 6.1; GREENGUARD[®]; RoHS-compliant 			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						er	1				
Dimensions ³	<i>14.0" (WxDxH):</i> 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm <i>14.0" Touch (WxDxH):</i> 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm											
Weight ² Case material	Multi-touch 3 Display cover:	Carbon-I	.63 kg .76 kg ber Reinford	prced Plast	3 kg 7 kg (non-t ic (mul	3-cell + 6 4.21 lb / 1. 4.52 lb / 2. ouch model) ti-touch mod	91 kg 05 kg Or					