

ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

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 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm															
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics	Weight ²	<table><tr><td>Models</td><td>No + 3-cell</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell</td></tr><tr><td>Non-touch</td><td>3.58 lb / 1.63 kg</td><td>3.81 lb / 1.73 kg</td><td>4.21 lb / 1.91 kg</td></tr><tr><td>Multi-touch</td><td>3.89 lb / 1.76 kg</td><td>4.11 lb / 1.87 kg</td><td>4.52 lb / 2.05 kg</td></tr></table>				Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell	Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg	Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
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	i3-4030U	2	4	1.9 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4400	Case material Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic	Smart card reader Media reader Ports	Optional: Smart card reader 4-in-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			1.9 GHz	2.9 GHz			Intel HD Graphics 4400																	
	i3-5010U			2.1 GHz	-																				
	i5-5200U			2.2 GHz	2.7 GHz	3MB		Intel HD Graphics 5500																	
	i5-5300U			2.3 GHz	2.9 GHz																				
	i7-5500U			2.4 GHz	3 GHz																				
	i7-5600U	2.6 GHz	3.2 GHz	4MB																					
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)																								
Chipset	Intel SoC (System on Chip) platform								Camera	HD720p resolution, low light sensitive, fixed focus															
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack															
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight															
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch															
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, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								Security	Power-on password, hard disk password, supervisor password, security keyhole															
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot								Security chip	Trusted Platform Module, TCG 1.2-compliant															
Optical	None								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures															
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)								vPro (optional)	Intel vPro Technology															
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor															
WLAN ⁴	<i>One of the following, configurable by model:</i> 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								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)															
WWAN (optional)	<i>One of the following, configurable by model:</i> - 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								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)															
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								Max battery life ¹⁰	<table><tr><td>Models</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell 48Wh</td><td>3-cell + 6-cell 72Wh</td></tr><tr><td>Battery life</td><td>10.08 hr</td><td>14.78 hr</td><td>19.78 hr</td></tr></table>				Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	Battery life	10.08 hr	14.78 hr	19.78 hr				
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									AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
									Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • 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)															
									Limited warranty ¹²	<i>One of the following, configurable by model:</i> 1-year depot repair service 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															