

# ThinkPad T450s Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500	
	i5-5300U			2.3 GHz	2.9 GHz	3MB			
i7-5600U	2.6 GHz			3.2 GHz	4MB				
Graphics	Intel HD Graphics 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)								Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch
Chipset	Intel SoC (System on Chip) platform								Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures vPro (optional) Intel vPro Technology Fingerprint reader <i>Optional</i> : Fingerprint reader on the keyboard bezel, swipe sensor
Memory	20GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket								
Display	<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								Internal battery <i>Optional</i> : Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 264 nits								Max battery life <sup>10</sup>
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								AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter
	M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot							
Optical	None								Preload Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • 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)  <i>Some</i> : Windows 8.1 64-bit <i>Some</i> : Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • PC Device Stage • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions)
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I218-V (Clarkville) <i>vPro model</i> : Intel Ethernet Connection I218-LM (Clarkville)								
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty <sup>12</sup> <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 service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
WLAN <sup>4</sup>	<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 • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card								
WWAN (optional)	<i>One of the following, configurable by model</i> : • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card								Mil-Spec test MIL-STD-810G military certification
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								
Dimensions <sup>3</sup>	14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm								Environment EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant
Weight <sup>2</sup>	Models	No + 3-cell		3-cell + 3-cell		3-cell + 6-cell			
	Non-touch	3.26 lb / 1.48 kg		3.49 lb / 1.59 kg		3.90 lb / 1.77 kg			
	Multi-touch	3.79 lb / 1.72 kg		4.02 lb / 1.82 kg		4.42 lb / 2.01 kg			
Case material	<i>Display cover</i> : Carbon-Fiber Reinforced Plastic; <i>Bottom</i> : Magnesium/Aluminum								

