

# ThinkPad T540p Platform Specifications

Product Specifications Reference (PSREF)

Positioning	<i>Premiere performance; two spindles</i>								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Processor	4th Generation Intel® Core™ i3 / i5 / i7 Processor								Ethernet	Intel Ethernet Connection I217-LM (Clarkville)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics	NFC	<i>Optional: Near Field Communication</i>
	i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600	Chipset	<b>Mobile Intel QM87 Express Chipset</b>
	i3-4100M			2.5 GHz	-	3MB			ExpressCard	One slot (ExpressCard/34)
	i5-4200M			2.5 GHz	3.1 GHz	3MB			Smart card reader	<i>Optional: Smart card reader</i>
	i5-4210M			2.6 GHz	3.2 GHz	3MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-4300M			2.6 GHz	3.3 GHz	3MB			Ports	Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	i5-4330M			2.8 GHz	3.5 GHz	3MB			WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li> <li>Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card</li> <li>Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card</li> <li>Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card</li> </ul>
	i7-4600M	4	8	2.9 GHz	3.6 GHz	4MB	WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with M.2 SSD):</i> <ul style="list-style-type: none"> <li>Wireless WAN upgradable</li> <li>Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)</li> <li>Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)</li> <li>Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)</li> </ul>		
	i7-4700MQ			2.4 GHz	3.4 GHz	6MB	SIM card (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>AT&amp;T® or Verizon® LTE (4G), contract required with service provider (US models)</li> <li>Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)</li> <li>User selectable, contract required with service provider</li> </ul>		
	i7-4710MQ			2.5 GHz	3.5 GHz	6MB	Security	Power-on password, hard disk password, supervisor password, security keyhole		
	i7-4800MQ			2.7 GHz	3.7 GHz	6MB	Security chip	Trusted Platform Module, TCG 1.2-compliant		
	i7-4900MQ			2.8 GHz	3.8 GHz	8MB	vPro (optional)	Intel vPro Technology		
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Fingerprint reader	<i>Optional: Fingerprint reader on the palm rest, swipe sensor</i>
Optical Ultrabay	DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access								Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>1-year depot repair service</li> <li>3-year/1-yr battery depot repair service</li> <li>3-year/1-yr battery limited onsite service<sup>24</sup></li> <li>3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li> </ul>
Storage	<i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>ThinkVantage Product Recovery</li> <li>Rescue and Recovery™</li> <li>ThinkVantage System Update</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>PC Device Stage</li> <li>Adobe® Reader®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Cyberlink PowerDVD (DVD±RW)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> </ul>
M.2 SSD	<i>All:</i> removable, upgradable, supports the second disk, Shock Mounted <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant
Widescreen display	<i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS									
Camera (optional)	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus									
Graphics	Intel HD Graphics 4600 in processor only, or Intel HD Graphics 4600 in processor and NVIDIA GeForce® GT 730M, PCI Express® x8, 1GB memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; <i>Max resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable)									
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch									
ThinkLight™	None									
Dimensions <sup>3</sup>	<i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm									
Weight <sup>2</sup>	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>						
	<i>Integrated</i>	5.31 lb / 2.41kg		5.65 lb / 2.56kg						
	<i>Optimus</i>	5.43 lb / 2.46kg		5.80 lb / 2.63kg						
Case material	Glass-Fiber Reinforced Plastic									
Battery type	Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication									
Max battery life <sup>10</sup>	<i>Models</i>	<i>6-cell</i>		<i>9-cell</i>						
	<i>Integrated</i>	7 hr		12.5 hr						
	<i>Optimus</i>	6.2 hr		11 hr						
AC adapter	65-watt, 90-watt, or 135-watt AC adapter									
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack									

<b>Model</b>	<b>20BF005U++</b>
Product	T540p
Region	WE
Machine Type	20BF
TopSeller	No
Processor	i5-4300M (2C, 2.6 / 3.3GHz, 3MB, 1600MHz)
vPro	vPro
Graphics	Intel HD Graphics 4600
Memory	4GBx1
Display	15.6" HD (1366x768)
Storage	500GB 7200rpm
Optical	DVD±RW
WLAN &Bluetooth	Intel 7260 a/b/g/n + BT4.0
WWAN / M.2 SSD	WWAN upgradable
SIM Card	None
Smart Card Reader	None
Express Card	ExpressCard/34
Camera	720p
Backlit Keyboard	None
Numeric Keypad	Numeric Keypad
Fingerprint Reader	Fingerprint Reader
NFC	None
Battery Cells	6-cell (56Wh)
Power Adapter (watt)	65W
Preload	Windows 8.1 DG Windows 7 Pro 64
Base Warranty	1-year depot
Global	Yes
Ann Date (mm/yy)	04/14

