ThinkPad T540p Platform Specifications

Positioning
Premiere performance; two spindles

Processor
4th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics
i3-4000M	2	4	2.4 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4600
i3-4100M			2.5 GHz	-	3MB		
i5-4200M			2.5 GHz	3.1 GHz	3MB		
i5-4210M			2.6 GHz	3.2 GHz	3MB		
i5-4300M			2.6 GHz	3.3 GHz	3MB		
i5-4330M			2.8 GHz	3.5 GHz	3MB		
i7-4600M			2.9 GHz	3.6 GHz	4MB		
i7-4700MQ	4	8	2.4 GHz	3.4 GHz	6MB		
i7-4710MQ			2.5 GHz	3.5 GHz	6MB		
i7-4800MQ			2.7 GHz	3.7 GHz	6MB		
i7-4900MQ			2.8 GHz	3.8 GHz	8MB		

Memory
16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

Optical
DVD burner, 9.5mm Ultrabay slim, removable

Ultrabay
One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access

Storage
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
Some: Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™
All: removable, upgradable, supports the second disk, Shock Mounted

M.2 SSD
Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card

Widescreen display
Some: **15.6"** (396mm) **HD (1366x768)**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: **15.6"** (396mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: **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;
Max resolution: 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable)

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight

UltraNav™
TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch

ThinkLight™
None

Dimensions[3]
HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm
FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm

Weight[2]

Models	*6-cell*	*9-cell*
Integrated	5.31 lb / 2.41kg	5.65 lb / 2.56kg
Optimus	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[10]

Models	*6-cell*	*9-cell*
Integrated	7 hr	12.5 hr
Optimus	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

Bluetooth™
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
Intel Ethernet Connection I217-LM (Clarkville)

NFC
Optional: Near Field Communication

Chipset
Mobile Intel QM87 Express Chipset

ExpressCard
One slot (ExpressCard/34)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

WLAN[4]
One of the following, configurable by model:
- ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with M.2 SSD):
- Wireless WAN upgradable
- Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models)
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models)
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models)

SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider (US models)
- Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models)
- User selectable, contract required with service provider

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Trusted Platform Module, TCG 1.2-compliant

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Fingerprint reader on the palm rest, swipe sensor

Limited warranty[12]
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

Preload
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64
- Lenovo Solution Center
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- Lenovo Cloud Storage by SugarSync
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

Some: Windows 8 / 8.1 64-bit
Some: Windows 8 / 8.1 Pro 64-bit
Some: 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)

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

Model	20BE00BSUS
Product	T540p
Region	US
Machine Type	20BE
TopSeller	TopSeller
Processor	i7-4710MQ (4C, 2.5 / 3.5GHz, 6MB, 1600MHz)
vPro	No
Graphics	NVIDIA GeForce GT 730M
Memory	8GBx1
Display	15.6" FHD (1920x1080)
Storage	256GB SSD eDrive
Optical	DVD±RW
WLAN &Bluetooth	Intel 7260 ac + BT4.0
WWAN / M.2 SSD	WWAN upgradable
SIM Card	None
Smart Card Reader	None
Express Card	ExpressCard/34
Camera	720p
Backlit Keyboard	Backlit Keyboard
Numeric Keypad	Numeric Keypad
Fingerprint Reader	Fingerprint Reader
NFC	None
Battery Cells	9-cell (99.9Wh)
Power Adapter (watt)	135W
Preload	Windows 8 DG Windows 7 Pro 64
Base Warranty	3-year depot
Global	No
Ann Date (mm/yy)	03/15











