

ThinkPad T480 [20L50018US](#)

Product
ThinkPad T480

Region
NA

Country
USA

Machine Type
20L5

TopSeller
TopSeller

Processor
Core i7-8650U (4C / 8T, 1.9 / 4.2GHz, 8MB)

Graphics
Integrated Intel UHD Graphics 620

Chipset
Intel SoC Platform

Memory
1x 16GB DIMM DDR4-2400

Display
14" FHD (1920x1080) IPS 250nits Anti-glare

Multi-touch
None

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

Optane Memory
None

Optical
None

WLAN + Bluetooth
Intel 8265 11ac, 2x2 + BT4.1

WWAN
None

SIM Card
None

Smart Card Reader
None

Monitor Cable
None

Color
Black

Case Material
PPS

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
Discrete TPM 2.0

Battery
Integrated 24Wh + Swappable 24Wh

Power Adapter
65W USB-C

System Management
Intel vPro

Operating System
Windows 10 Pro 64

Bundled Software
None

Warranty
3-year, Depot

End of Support
2023-02-06

Announce Date
2018-02-06

Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.
<https://www.lenovo.com/hk/en/battery-info>

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to:
<https://www.calrecycle.ca.gov/Electronics/Consumer>



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ThinkPad T480 Platform Specifications

Product Specifications Reference (PSREF)



Processor	7th Generation Intel® Core™ i5 Processor							Dimensions WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm																					
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics																				
	i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620																					
	i5-7300U			2.6 GHz	3.5 GHz	3MB																							
	or 8th Generation Intel Core i3 / i5 / i7 Processor							Weight																					
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics																				
	i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620																					
	i5-8250U			1.6 GHz	3.4 GHz	6MB																							
	i5-8350U	4	8	1.7 GHz	3.6 GHz	6MB	DDR4-2400	Intel UHD Graphics 620																					
	i7-8550U			1.8 GHz	4.0 GHz	8MB																							
	i7-8650U			1.9 GHz	4.2 GHz	8MB																							
Graphics	Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory (discrete graphics is available only on i7 models in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)							Case color Case material																					
Chipset	Intel SoC (System on Chip) platform							Black																					
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller							Display cover: Magnesium Hybrid or PPS; Bottom: Glass-Fiber Reinforced Plastic																					
Display	Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle							Smart card reader Media reader Ports																					
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)							Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 media reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole * Depending on many factors, actual data transfer speed may be lower than theoretical speed																					
Storage	System has one HDD slot or one M.2 2280 slot exclusively for storage Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4 Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, in WWAN slot as 2nd Storage, mutually exclusive with WWAN * Installed M.2 SSD is PCIe 3.0 x 4 but run at PCIe 3.0 x 2 due to M.2 SSD adapter limitation							Monitor cable (optional) HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter																					
Optane™ memory	Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2							Camera (optional) One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus																					
Optical	None							Audio support HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack																					
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)							Keyboard UltraNav™ TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad																					
WLAN + Bluetooth™	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS							Security Security chip vPro (optional) Fingerprint reader																					
WWAN (optional)	One of the following, configurable by model (mutually exclusive with Intel Optane memory): • Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only) • Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card * For non-WWAN model, it means the model is NOT WWAN upgradable							Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology Optional: Touch style match on chip fingerprint reader on the keyboard bezel, anti-spoofing technology																					
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card							NFC (optional) Near Field Communication																					
								Battery Optional integrated Li-ion 24Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery																					
								Max battery life (MobileMark® 2014)																					
								<table border="1"> <thead> <tr> <th>Models</th> <th>24Wh</th> <th>48Wh</th> <th>72Wh</th> <th>24Wh + 24Wh</th> <th>24Wh + 48Wh</th> <th>24Wh + 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>7.2 hr</td> <td>14.4 hr</td> <td>21.8 hr</td> <td>14.4 hr</td> <td>21.8 hr</td> <td>29.0 hr</td> </tr> <tr> <td>Discrete model</td> <td>6.6 hr</td> <td>13.2 hr</td> <td>19.8 hr</td> <td>13.6 hr</td> <td>19.8 hr</td> <td>26.4 hr</td> </tr> </tbody> </table>	Models	24Wh	48Wh	72Wh	24Wh + 24Wh	24Wh + 48Wh	24Wh + 72Wh	Integrated model	7.2 hr	14.4 hr	21.8 hr	14.4 hr	21.8 hr	29.0 hr	Discrete model	6.6 hr	13.2 hr	19.8 hr	13.6 hr	19.8 hr	26.4 hr
Models	24Wh	48Wh	72Wh	24Wh + 24Wh	24Wh + 48Wh	24Wh + 72Wh																							
Integrated model	7.2 hr	14.4 hr	21.8 hr	14.4 hr	21.8 hr	29.0 hr																							
Discrete model	6.6 hr	13.2 hr	19.8 hr	13.6 hr	19.8 hr	26.4 hr																							
								* Battery life varies significantly with settings, usage, & other factors																					
								AC adapter 45W or 65W USB Type-C AC adapter																					
								Preload Windows® 10 Home 64 or Windows 10 Pro 64																					
								Limited warranty 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																					
								Mil-Spec test MIL-STD-810G military certification																					
								Environment EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant																					

Note: The specifications above may not be available in all regions.

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