

ThinkPad T580 20L9004J++

Product
ThinkPad T580

Region
EMEA

Machine Type
20L9

TopSeller
TopSeller

Processor
Core i5-8250U (4C, 1.6 / 3.4GHz, 6MB)

vPro
No

Graphics
Integrated Intel UHD Graphics 620

Memory
16GBx1

Display
15.6" FHD (1920x1080) IPS

Multi-touch
None

Storage
512GB SSD M.2 PCIe NVMe Opal2

Optical
None

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

WWAN
Fibocom L830-EB

SIM Card
None

Smart Card Reader
Smart Card Reader

Monitor Cable
None

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
dTPM 2.0

Battery
32Wh + 24Wh

Power Adapter
65W USB-C

Operating System
Windows 10 Pro 64

Warranty
3-year, Depot

End of Support
Nov 16, 2024

Ann Date (mm/yy)
10/18

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>



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<https://psref.lenovo.com>

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ThinkPad T580 Platform Specifications

Product Specifications Reference (PSREF)



Processor	7th Generation Intel® Core™ i5 Processor							Dimensions Weight	<i>WxDxH:</i> 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm <i>Integrated model:</i> starting at 4.29 lb / 1.95 kg; <i>Discrete model:</i> starting at 4.39 lb / 1.99 kg														
	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 i5 / i7 Processor							Case color Case material	Black <i>Display cover:</i> Glass-Fiber Reinforced Plastic (PPS); <i>Bottom:</i> Glass-Fiber Reinforced Plastic														
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types			Processor Graphics													
	i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620															
	i5-8350U			1.7 GHz	3.6 GHz	6MB																	
	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; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)							Smart card reader	Optional: Smart card reader														
Chipset	Intel SoC (System on Chip) platform							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)														
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets							Ports	Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1, USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole														
	* System clocks down for processors with lower memory controller								* Depending on many factors, actual data transfer speed may be lower than theoretical speed														
Display	<i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle							Monitor cable (optional)	<i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter														
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)							Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus														
Storage	System has one HDD slot or one M.2 2280 slot exclusively for storage <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD) <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s <i>Some:</i> 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN <i>Some:</i> 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as storage cache for HDD, mutually exclusive with WWAN							Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack														
Optical	None							Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight														
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)							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							Security	Power-on password, hard disk password, supervisor password, security keyhole														
	* Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS							Security chip	Discrete TPM 2.0, TCG Certified														
WWAN (optional)	One of the following, configurable by model: • 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							vPro (optional)	Intel vPro Technology														
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card							Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology														
								NFC (optional)	Near Field Communication														
								Battery	Optional integrated Li-ion 32Wh 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>32Wh + 24Wh</th> <th>32Wh + 48Wh</th> <th>32Wh + 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>5.8 hr</td> <td>12.5 hr</td> <td>18.1 hr</td> <td>13.8 hr</td> <td>20.3 hr</td> <td>26.1 hr</td> </tr> </tbody> </table> * Battery life varies significantly with settings, usage, & other factors	Models	24Wh	48Wh	72Wh	32Wh + 24Wh	32Wh + 48Wh	32Wh + 72Wh	Max battery life	5.8 hr	12.5 hr	18.1 hr	13.8 hr	20.3 hr	26.1 hr
Models	24Wh	48Wh	72Wh	32Wh + 24Wh	32Wh + 48Wh	32Wh + 72Wh																	
Max battery life	5.8 hr	12.5 hr	18.1 hr	13.8 hr	20.3 hr	26.1 hr																	
								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	EPPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant														

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

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