ThinkPad T580 Platform Specifications

Processor	7th Generation Intel® Core™ i5 Processor

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

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)
Chipset	Intel SoC (System on Chip) platform
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets ** System clocks down for processors with lower memory controller*
Display	*Some:* 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle *Some:* 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle
Multi-touch *(opt)*	On-cell touch, supports 10-finger gesture (FHD only)
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 2, 16Gb/s *Some:* 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN
Optane™ memory	*Optional:* Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2
Optical	None
Ethernet	*Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville) *vPro model:* Intel Ethernet Connection I219-LM (Jacksonville)
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*
WWAN *(optional)*	*One of the following, configurable by model:* • Wireless WAN upgradable (special bid only) • 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*
SIM card *(opt)*	Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions	*WxDxH:* 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm
Weight	*Integrated model:* starting at 4.29 lb / 1.95 kg; *Discrete model:* starting at 4.39 lb / 1.99 kg
Case color	Black
Case material	*Display cover:* GFRP + PPS; *Bottom:* GFRP
Smart card reader	*Optional:* Smart card reader
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	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 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole ** Depending on many factors, actual data transfer speed may be lower than theoretical speed*
Monitor cable *(optional)*	*HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter *USB-C to DP:* Lenovo USB-C to DisplayPort Adapter
Camera *(optional)*	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus
Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone (for special bid model, microphone is optional), headphone / microphone combo jack
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Discrete TPM 2.0, TCG Certified (may be disabled in some region)
vPro *(optional)*	Intel vPro Technology
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

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

Max battery life *(MobileMark® 2014)*

* Battery life varies significantly with hardware configurations, settings, usage, & other factors

AC adapter	45W or 65W USB-C AC adapter
Operating system	*Optional:* Windows® 10 Home 64 or Windows 10 Pro 64
Limited warranty *(optional)*	• 1-year depot repair service • 1-year depot with 2-year system board repair service • 1-year + 2-year depot repair service • 1-year + 2-year limited onsite service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service
Mil-Spec test	MIL-STD-810G military testing
Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant

Note: The specifications above may not be available in all regions and might change by regions.