



ThinkPad T480 Platform Specifications

Product Specifications Reference (PSREF)

Processor	7th Generation Intel® Core™ i5 Processor							Dimensions Weight	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	Models	24Wh or 24Wh + 24Wh	48Wh, 72Wh, or 24Wh + 48Wh / 72Wh			
	i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620	Integrated Magnesium	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg				
	i5-7300U			2.6 GHz	3.5 GHz	3MB			Discrete Magnesium	3.53 lb / 1.60 kg	3.97 lb / 1.80 kg				
	or 8th Generation Intel Core i3 / i5 / i7 Processor							Case color Case material	Black Display cover: Magnesium Hybrid or PPS; Bottom: Glass-Fiber Reinforced Plastic						
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics	Smart card reader	Optional: Smart card reader				
	i3-8130U	4	8	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
	i5-8250U			1.6 GHz	3.4 GHz	6MB			Ports	Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1, one 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 media reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole					
	i5-8350U			1.7 GHz	3.6 GHz	6MB			Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter					
	i7-8550U			1.8 GHz	4.0 GHz	8MB			Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus					
	i7-8650U			1.9 GHz	4.2 GHz	8MB			Audio support	HD Audio, Realtek® ALC3287 codec, Dolby® Audio™ Premium / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack					
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)							Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™						
Chipset	Intel SoC (System on Chip) platform							Security	Power-on password, hard disk password, supervisor password, security keyhole						
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller							Security chip	Discrete TPM 2.0, TCG Certified						
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							vPro (optional)	Intel vPro Technology						
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)							Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the keyboard bezel, anti-spoofing technology						
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, 32Gb/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 Some: 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							NFC (optional)	Near Field Communication						
Optical	None							Battery	Optional integrated Li-Ion 24Wh battery and external Li-Ion 24Wh, 48Wh, or 72Wh battery						
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)							Max battery life (MobileMark® 2014)	Models	24Wh	48Wh	72Wh	24Wh + 24Wh	24Wh + 48Wh	24Wh + 72Wh
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							Integrated model	7.2 hr	14.4 hr	21.8 hr	14.4 hr	21.8 hr	29.0 hr	
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							Discrete model	6.6 hr	13.2 hr	19.8 hr	13.6 hr	19.8 hr	26.4 hr	
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card							AC adapter	* Battery life varies significantly with settings, usage, & other factors 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; ENERGY STAR® 6.1; RoHS-compliant						

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

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L5000TUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000UUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000VUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000WUS	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L5000XUS	US	i7-8650U	vPro	MX150 2GB	16GBx1	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000YUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50010US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50011US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50012US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50013US	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50014US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50015US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50016US	US	i5-7300U	vPro	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L50017US	US	i5-8350U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50018US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50019US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001AUS	US	i5-8350U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001BUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001CUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001DUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L5004HUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L5004JUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004KUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004LUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004MUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004NUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004PUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004QUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L50053US	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	04/18
20L50054US	US	i5-8350U	vPro	Intel UHD 620	4GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5005BUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18
20L5005CUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	06/18