



# ThinkPad T480s Platform Specifications

Product Specifications Reference (PSREF)

Processor	7th Generation Intel® Core™ i5 Processor								Dimensions	<i>WxDxH:</i> 13.03" x 8.93" x 0.73"; 331mm x 226.8mm x 18.45mm
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	Starting at 2.9 lb (1.32kg)
	i5-7300U	2	4	2.6 GHz	3.5 GHz	3MB	DDR4-2133	Intel HD Graphics 620	Case color	Black or Silver
	or 8th Generation Intel Core i5 / i7 Processor								Case material	<i>Display cover:</i> CFRP Hybrid; <i>Bottom:</i> Magnesium
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Smart card reader	<i>Optional:</i> Smart card reader
	i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-8350U			1.7 GHz	3.6 GHz	6MB			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
	i7-8550U			1.8 GHz	4.0 GHz	8MB			Monitor cable ( <i>optional</i> )	<i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter
	i7-8650U			1.9 GHz	4.2 GHz	8MB			Camera	<i>One of the following, configurable by model:</i> • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus
Graphics	Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory (discrete models are NOT available 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)								Audio support	HD Audio, Realtek® ALC3287 codec, Dolby® Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack
Chipset	Intel SoC (System on Chip) platform								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight
Memory	20GB or 24GB max / 2400MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket * System clocks down for processors with lower memory controller								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 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								Security	Power-on password, hard disk password, supervisor password, security keyhole
Multi-touch ( <i>opt</i> )	On-cell touch, supports 10-finger gesture, 250 nits (FHD only)								Security chip	Discrete TPM 2.0, TCG Certified
Storage	<i>One of the following, configurable by model:</i> • M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) • M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)								vPro ( <i>optional</i> )	Intel vPro Technology
Optical	None								Fingerprint reader	<i>Optional:</i> Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)								NFC ( <i>optional</i> )	Near Field Communication
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								Battery	Integrated Li-Ion 57Wh battery, supports Rapid Charge (0-80% in 60 mins) with 65W USB Type-C AC adapter
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • 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								Max battery life	<i>MobileMark® 2014:</i> 15.6 hr * Battery life varies significantly with settings, usage, & other factors
SIM card ( <i>opt</i> )	Nano-SIM card slot, optional Verizon LTE (US) SIM card								AC adapter	45W or 65W USB Type-C AC adapter
									Operating system	Windows® 10 Home 64 or Windows 10 Pro 64
									Limited warranty	<i>One of the following, configurable by model:</i> • 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	PEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L7001WUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7001XUS	US	i5-8350U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7001YUS	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70020US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70021US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70022US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70023US	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70024US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70025US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70026US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70027US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70029US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002CUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002DUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002EUS	US	i5-8350U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002FUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002HUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002KUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7004GUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	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	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004HUS	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18

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20L7004JUS	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	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	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004KUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	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	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004LUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	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	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L70054US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20L70055US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18