



Lenovo ThinkPad T480s Intel® Core™ i7 i7-8650U Laptop 35,6 cm (14") Full HD 8 GB DDR4-SDRAM 512 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo

Product family: ThinkPad

Article code: 20L8S48M00

Product name : T480s

Lenovo ThinkPad T480s. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8650U, Processor frequency: 1,9 GHz. Display diagonal: 35,6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 620. Operating system installed: Windows 10 Pro. Product color: Black



Design		Ports & interfaces	
Product type *	Laptop	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Product color *	Black	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Form factor *	Clamshell	Ethernet LAN (RJ-45) ports	1
Display		HDMI ports quantity *	1
Display diagonal *	35,6 cm (14")	HDMI version	1.4b
Display resolution *	1920 x 1080 pixels	Combo headphone/mic port	✓
Touchscreen *	✗	Docking connector	✓
HD type	Full HD	USB Sleep-and-Charge	✓
Panel type	IPS	USB Sleep-and-Charge ports	1
LED backlight	✓	Keyboard	
Native aspect ratio	16:9	Pointing device	ThinkPad UltraNav
Display brightness	250 cd/m²	Numeric keypad *	✗
Contrast ratio (typical)	700:1	Spill-resistant keyboard	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor family *	Intel® Core™ i7	Operating system installed *	Windows 10 Pro
Processor generation	8th gen Intel® Core™ i7	Processor special features	
Processor model *	i7-8650U	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cores	4	Intel® Smart Response Technology	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	4,2 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	1,9 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	4 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cache	8 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1356	Intel Clear Video Technology	✓
Processor lithography	14 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit		
Processor codename	Kaby Lake R		
Bus type	OPI		
Stepping	Y0		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2,1 GHz		

Processor		Processor special features	
Configurable TDP-up	25 W	Intel® Quick Sync Video Technology	✓
Configurable TDP-down	10 W	Intel Flex Memory Access	✓
Configurable TDP-down frequency	0,8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Tjunction	100 °C	Intel Trusted Execution Technology	✓
Maximum number of PCI Express lanes	12	Intel Enhanced Halt State	✓
PCI Express slots version	3.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel® Secure Key	✓
Memory		Intel TSX-NI	✓
Internal memory *	8 GB	Intel Stable Image Platform Program (SIPP)	✓
Internal memory type	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speed	2400 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory form factor	On-board + SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory slots	1x SO-DIMM	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	512 GB	Idle States	✓
Storage media *	SSD	Thermal Monitoring Technologies	✓
Total SSDs capacity	512 GB	Processor package size	42 X 24 mm
Number of SSDs installed	1	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
SSD capacity	512 GB	Processor code	SR3L8
SSD interface	NVMe, PCI Express	CPU configuration (max)	1
NVMe	✓	Embedded options available	✗
SSD form factor	M.2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Identity Protection Technology version	1,00
Card reader integrated	✓	Intel Smart Response Technology version	1,00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Stable Image Platform Program (SIPP) version	1,00
Graphics		Intel Secure Key Technology version	1,00
Discrete graphics card model *	Not available	Intel TSX-NI version	1,00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Processor ARK ID	124968
On-board graphics card model *	Intel® UHD Graphics 620	Conflict-Free processor	✓
On-board graphics card base frequency	300 MHz	Battery	
On-board graphics card dynamic frequency (max)	1150 MHz	Battery technology	Lithium-Ion (Li-Ion)
Maximum on-board graphics card memory	32 GB	Battery capacity *	57 Wh
On-board graphics card DirectX version	12.0	Battery life (max)	15,6 h
On-board graphics card OpenGL version	4.4	Power	
On-board graphics card ID	0x5917	AC adapter power	45 W
Audio		Security	
Audio chip	Realtek ALC3287	Cable lock slot	✓
Audio system	Dolby Audio Premium	Fingerprint reader	✓
Number of built-in speakers	2	Trusted Platform Module (TPM)	✓
Speaker power	1 W	Password protection	✓
Built-in subwoofer	✗	Password protection type	HDD, Power on, Supervisor
Built-in microphone	✓	Certificates	
Camera		Compliance certificates	RoHS
Front camera	✓	Sustainability	
Front camera HD type	HD	Sustainability certificates	ENERGY STAR
Network			
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)		
Antenna type	2x2		
WLAN controller model	Intel Dual Band Wireless-AC 8265		

Network		Weight & dimensions	
WLAN controller manufacturer	Intel	Width	331 mm
Ethernet LAN	✓	Depth	226,8 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	18,4 mm
Bluetooth	✓	Weight *	1,32 kg
Bluetooth version	4.1		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		

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