



Lenovo ThinkPad T480 Intel® Core™ i7 i7-8550U Laptop 35,6 cm (14") Full HD 16 GB DDR4-SDRAM 512 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo

Product family: ThinkPad

Article code: 20L5000ART

Product name : ThinkPad T480

Lenovo ThinkPad T480. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8550U, Processor frequency: 1,8 GHz. Display diagonal: 35,6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 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	HDMI ports quantity *	1
Product color *	Black	HDMI version	1.4b
Form factor *	Clamshell	Headphone outputs	1
Housing material	FRP (Fiber Reinforced Plastic), Magnesium	Microphone in	✗
Market positioning	Business	Combo headphone/mic port	✓
Display		SmartCard slot	✓
Display diagonal *	35,6 cm (14")	USB Sleep-and-Charge	✓
Display resolution *	1920 x 1080 pixels	USB Sleep-and-Charge ports	1
Touchscreen *	✗	Performance	
HD type	Full HD	Motherboard chipset	Intel SoC
Panel type	IPS	Keyboard	
LED backlight	✓	Pointing device	ThinkPad UltraNav
Native aspect ratio	16:9	Numeric keypad *	✗
Display surface	Matt	Keyboard backlit	✓
Display brightness	250 cd/m²	Spill-resistant keyboard	✓
Contrast ratio (typical)	700:1	Windows keys	✓
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 *	i7-8550U	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 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	1,8 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		

Processor		Processor special features	
Configurable TDP-up frequency	2 GHz	Intel® Quick Sync Video Technology	✓
Configurable TDP-up	25 W	Intel Flex Memory Access	✓
Configurable TDP-down	10 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Configurable TDP-down frequency	0,8 GHz	Intel Trusted Execution Technology	✗
Tjunction	100 °C	Intel Enhanced Halt State	✓
Maximum number of PCI Express lanes	12	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel TSX-NI	✗
ECC supported by processor	✗	Intel® OS Guard	✓
Memory		Intel Software Guard Extensions (Intel SGX)	✓
Internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory type	DDR4-SDRAM	Intel 64	✓
Memory clock speed	2400 MHz	Execute Disable Bit	✓
Memory form factor	SO-DIMM	Idle States	✓
Memory layout (slots x size)	1 x 16 GB	Thermal Monitoring Technologies	✓
Memory slots	2x SO-DIMM	Processor package size	42 x 24 mm
Maximum internal memory *	32 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage		CPU configuration (max)	1
Total storage capacity *	512 GB	Embedded options available	✗
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Identity Protection Technology version	1,00
SSD capacity	512 GB	Intel Smart Response Technology version	1,00
SSD form factor	M.2	Intel Secure Key Technology version	1,00
Optical drive type *	✗	Intel TSX-NI version	0,00
Card reader integrated	✓	Intel Virtualization Technology (VT-x)	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Processor ARK ID	122589
Graphics		Conflict-Free processor	✓
Discrete graphics card model *	Not available	Battery	
On-board graphics card *	✓	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card *	✗	Battery life (max)	14,4 h
On-board graphics card family	Intel® UHD Graphics	Power	
On-board graphics card model *	Intel® UHD Graphics 620	AC adapter power	65 W
On-board graphics card base frequency	300 MHz	AC adapter frequency	50 - 60 Hz
On-board graphics card dynamic frequency (max)	1150 MHz	AC adapter input voltage	100 - 240 V
Maximum on-board graphics card memory	32 GB	Security	
On-board graphics card DirectX version	12.0	Cable lock slot	✓
On-board graphics card OpenGL version	4.4	Fingerprint reader	✓
On-board graphics card ID	0x5917	Trusted Platform Module (TPM)	✓
Audio		Password protection	✓
Audio chip	Realtek ALC3287	Password protection type	HDD, Power on, Supervisor
Audio system	Dolby Audio Premium	Certificates	
Number of built-in speakers	2	Compliance certificates	RoHS
Speaker power	2 W	Certification	MIL-STD-810G
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	EPEAT Gold, ENERGY STAR
Front camera	✓	Weight & dimensions	
Front camera resolution	1280 x 720 pixels	Width	336,6 mm
Front camera signal format	720p	Depth	232,5 mm
Front camera HD type	HD		
Network			
Wi-Fi	✓		
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		

Network		Weight & dimensions	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height	19,9 mm
Ethernet LAN	✓	Weight *	1,65 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	Packaging content	
Bluetooth	✓	AC adapter included *	✓
Bluetooth version	4.1	Manual	✓
Ports & interfaces		Power cord included	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	3D	✗
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Maximum internal memory (64-bit)	32 GB
Ethernet LAN (RJ-45) ports	1		

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