



Lenovo ThinkPad T490 Intel® Core™ i7 i7-8565U Laptop 35.6 cm (14") Full HD 8 GB DDR4-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo

Product family: ThinkPad

Product code: 20N20028US

Product name : ThinkPad T490

Intel Core i7-8565U (4C, 1.8 / 4.6GHz, 8MB), 8GB Soldered, 256GB SSD M.2 2280 PCIe NVMe Opal2, 14" FHD (1920x1080) IPS 250nits Anti-glare, Intel UHD Graphics 620, Intel 9560 ac, 2x2 + BT5.0, Windows 10 Pro 64

Lenovo ThinkPad T490. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8565U, Processor frequency: 1.8 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: 256 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. 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	Headphone outputs	1
Touchscreen *	✗	Combo headphone/mic port	✓
HD type	Full HD	Docking connector	✓
Panel type	IPS	USB Sleep-and-Charge	✓
LED backlight	✓	USB Sleep-and-Charge ports	1
Native aspect ratio	16:9	Keyboard	
Contrast ratio (typical)	700:1	Pointing device	ThinkPad UltraNav
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlight	✓
Processor family *	Intel® Core™ i7	Spill-resistant keyboard	✓
Processor generation	8th gen Intel® Core™ i7	Software	
Processor model *	i7-8565U	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 10 Pro
Processor threads	8	Processor special features	
Processor boost frequency	4.6 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor frequency *	1.8 GHz	Intel® Smart Response Technology	✓
System bus rate	4 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	8 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology	2.0
Processor socket	BGA 1528	Enhanced Intel SpeedStep Technology	✓
Processor lithography	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit	Intel Clear Video Technology	✓
Processor codename	Whiskey Lake	Intel® Quick Sync Video Technology	✓
Bus type	OPI		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2 GHz		
Configurable TDP-up	25 W		
Configurable TDP-down	10 W		
Configurable TDP-down frequency	0.8 GHz		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel Flex Memory Access	✓
PCI Express slots version	3.0	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x4, 2x2	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	8 GB	Intel® Secure Key	✓
Internal memory type	DDR4-SDRAM	Intel TSX-NI	✗
Memory clock speed	2400 MHz	Intel® OS Guard	✓
Memory form factor	On-board + SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Memory slots	1x SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage		Intel 64	✓
Total storage capacity *	256 GB	Execute Disable Bit	✓
Storage media *	SSD	Idle States	✓
Number of SSDs installed	1	Thermal Monitoring Technologies	✓
SSD capacity	256 GB	Processor package size	46x24 mm
SSD interface	M.2	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Optical drive type *	✗	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	MicroSD (TransFlash)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1.00
Discrete graphics card model *	Not available	Intel Smart Response Technology version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✗	Intel TSX-NI version	0.00
On-board graphics card family	Intel® UHD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® UHD Graphics	Processor ARK ID	149091
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 *	50 Wh
On-board graphics card DirectX version	12.0	Fast charging	✓
On-board graphics card OpenGL version	4.5	Power	
On-board graphics card ID	0x3EA0	AC adapter power	65 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	2 W	Password protection	✓
Built-in microphone	✓	Password protection type	HDD, Power on, Supervisor
Camera		Certificates	
Front camera	✓	Compliance certificates	RoHS
Front camera signal format	720p	Sustainability	
Front camera HD type	HD	Sustainability certificates	EPEAT Bronze, ENERGY STAR
Network		Weight & dimensions	
Wi-Fi	✓	Width	329 mm
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Depth	227 mm
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)	Height	18.9 mm
Ethernet LAN	✓	Weight *	1.55 kg
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	5.0		

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A
ports quantity * 2



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