Lenovo

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

Product type *	Laptop
Product color *	Black
Form factor *	Clamshell

Display

Display diagonal *	35.6 cm (14")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Contrast ratio (typical)	700:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	8th gen Intel® Core™ i7
Processor model *	i7-8565U
Processor cores	4
Processor threads	8
Processor boost frequency	4.6 GHz
Processor frequency *	1.8 GHz
System bus rate	4 GT/s
Processor cache	8 MB
Processor cache type	Smart Cache
Processor socket	BGA 1528
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Whiskey Lake
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

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	1.4b
Headphone outputs	1
Combo headphone/mic port	✔
Docking connector	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	1

Keyboard

Pointing device	ThinkPad UltraNav
Numeric keypad *	✘
Keyboard backlit	✔
Spill-resistant keyboard	✔

Software

Operating system architecture	64-bit
Operating system installed *	Windows 10 Pro

Processor special features

Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Smart Response Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel® Quick Sync Video Technology	✔

Processor

Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x4, 2x2
ECC supported by processor	✘

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2400 MHz
Memory form factor	On-board + SO-DIMM
Memory slots	1x SO-DIMM

Storage

Total storage capacity *	256 GB
Storage media *	SSD
Number of SSDs installed	1
SSD capacity	256 GB
SSD interface	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics
On-board graphics card base frequency	300 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	32 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card ID	0x3EA0

Audio

Audio chip	Realtek ALC3287
Audio system	Dolby Audio Premium
Number of built-in speakers	2
Speaker power	2 W
Built-in microphone	✔

Camera

Front camera	✔
Front camera signal format	720p
Front camera HD type	HD

Network

Wi-Fi	✔
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)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.0

Processor special features

Intel Flex Memory Access	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	46x24 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Secure Key Technology version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	149091

Battery

Battery technology	Lithium-Ion (Li-Ion)
Battery capacity *	50 Wh
Fast charging	✔

Power

AC adapter power	65 W

Security

Cable lock slot	✔
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	HDD, Power on, Supervisor

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Bronze, ENERGY STAR

Weight & dimensions

Width	329 mm
Depth	227 mm
Height	18.9 mm
Weight *	1.55 kg

Ports & interfaces

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

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