



Lenovo ThinkPad T490 Laptop 35.6 cm (14") Quad HD Intel® Core™ i7 i7-8665U 48 GB DDR4-SDRAM 1 TB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black

Brand : Lenovo

Product family: ThinkPad

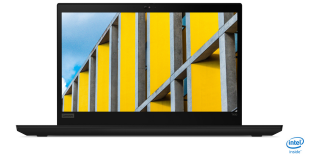
Product code: 20N2S3H300

Product name : T490

- Windows 10 Pro 64-bit
- Intel Core i7-8665U (8MB Cache, 1.9GHz)
- 35.6 cm (14") Quad HD 2560 x 1440 IPS
- 48GB (2400MHz) DDR4-SDRAM (1 x 32) & 1000GB SSD

Intel Core i7-8665U (8MB Cache, 1.9GHz), 48GB DDR4-SDRAM, 1000GB SSD, 35.6 cm (14") Quad HD 2560 x 1440 IPS, Intel UHD Graphics, LAN, WLAN, Webcam, Windows 10 Pro 64-bit

Lenovo ThinkPad T490. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8665U, Processor frequency: 1.9 GHz. Display diagonal: 35.6 cm (14"), HD type: Quad HD, Display resolution: 2560 x 1440 pixels. Internal memory: 48 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 10 Pro. Product colour: Black



Windows 10



| Design | | Network | |
|-------------------------------------|-------------------------|--|-------------------|
| Product type * | Laptop | Bluetooth version | 5.1 |
| Product colour * | Black | Ports & interfaces | |
| Form factor * | Clamshell | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |
| Display | | USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 |
| Display diagonal * | 35.6 cm (14") | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| Display resolution * | 2560 x 1440 pixels | Ethernet LAN (RJ-45) ports | 1 |
| Touchscreen * | ✗ | HDMI ports quantity * | 1 |
| HD type | Quad HD | HDMI version | 1.4b |
| Panel type | IPS | Microphone in | ✗ |
| LED backlight | ✓ | Combo headphone/mic port | ✓ |
| Native aspect ratio | 16:9 | USB Type-C DisplayPort Alternate Mode | ✓ |
| Display brightness | 500 cd/m ² | USB Sleep-and-Charge | ✓ |
| Processor | | Keyboard | |
| Processor manufacturer * | Intel | Pointing device | ThinkPad UltraNav |
| Processor generation | 8th gen Intel® Core™ i7 | Numeric keypad * | ✗ |
| Processor family * | Intel® Core™ i7 | Spill-resistant keyboard | ✓ |
| Processor model * | i7-8665U | Software | |
| Processor frequency * | 1.9 GHz | Operating system architecture | 64-bit |
| Processor boost frequency | 4.8 GHz | Operating system installed * | Windows 10 Pro |
| Processor threads | 8 | Processor special features | |
| System bus rate | 4 GT/s | Intel® My WiFi Technology (Intel® MWT) | ✓ |
| Processor cores | 4 | Intel® Smart Response Technology | ✓ |
| Processor cache | 8 MB | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor cache type | Smart Cache | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor socket | BGA 1528 | Intel® Turbo Boost Technology | 2.0 |
| Processor lithography | 14 nm | Enhanced Intel SpeedStep Technology | ✓ |
| Processor operating modes | 64-bit | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor codename | Whiskey Lake | Intel Clear Video Technology | ✓ |
| Bus type | OPI | Intel® Quick Sync Video Technology | ✓ |
| Thermal Design Power (TDP) | 15 W | | |
| Configurable TDP-up frequency | 2.1 GHz | | |
| Configurable TDP-up | 25 W | | |
| Configurable TDP-down | 10 W | | |
| Configurable TDP-down frequency | 0.8 GHz | | |
| Tjunction | 100 °C | | |
| Maximum number of PCI Express lanes | 16 | | |

| Processor | | Processor special features | |
|--|--|---|-------------------------|
| PCI Express slots version | 3.0 | Intel Flex Memory Access | ✓ |
| PCI Express configurations | 1x4, 2x2 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Memory | | Intel Trusted Execution Technology | ✓ |
| Internal memory * | 48 GB | Intel Enhanced Halt State | ✓ |
| Internal memory type | DDR4-SDRAM | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Memory clock speed | 2400 MHz | Intel® Secure Key | ✓ |
| Memory form factor | On-board + SO-DIMM | Intel TSX-NI | ✓ |
| Memory layout (slots x size) | 1 x 32 GB | Intel Stable Image Platform Program (SIPP) | ✓ |
| Memory slots | 1x SO-DIMM | Intel® OS Guard | ✓ |
| Maximum internal memory * | 48 GB | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Storage | | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓ |
| Total storage capacity * | 1 TB | Intel 64 | ✓ |
| Storage media * | SSD | Execute Disable Bit | ✓ |
| Total SSDs capacity | 1 TB | Idle States | ✓ |
| Number of SSDs installed | 1 | Thermal Monitoring Technologies | ✓ |
| SSD capacity | 1 TB | Processor package size | 46x24 mm |
| SSD interface | PCI Express | Supported instruction sets | AVX 2.0, SSE4.1, SSE4.2 |
| SSD form factor | M.2 | CPU configuration (max) | 1 |
| Optical drive type * | ✗ | Embedded options available | ✗ |
| Card reader integrated | ✓ | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Compatible memory cards | MicroSD (TransFlash) | Intel Identity Protection Technology version | 1.00 |
| Graphics | | Intel Smart Response Technology version | 1.00 |
| Discrete graphics card model * | Not available | Intel Secure Key Technology version | 1.00 |
| On-board graphics card * | ✓ | Intel TSX-NI version | 0.00 |
| Discrete graphics card * | ✗ | 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 Polymer (LiPo) |
| Maximum on-board graphics card memory | 32 GB | Battery capacity * | 50 Wh |
| On-board graphics card DirectX version | 12.0 | Battery life (max) | 16.11 h |
| On-board graphics card OpenGL version | 4.5 | Fast charging | ✓ |
| On-board graphics card ID | 0x3EA0 | Security | |
| Audio | | Cable lock slot | ✓ |
| Audio chip | Realtek ALC3287 | Smart card reader | ✓ |
| Audio system | Dolby Audio Premium | Password protection | ✓ |
| Number of built-in speakers | 2 | Certificates | |
| Speaker power | 2 W | Certification | MIL-STD-810G |
| Built-in microphone | ✓ | Weight & dimensions | |
| Camera | | Width | 329 mm |
| Front camera | ✓ | Depth | 227 mm |
| Front camera signal format | 720p | Height | 18.9 mm |
| Front camera HD type | HD | Weight * | 1.55 kg |
| Privacy camera | ✓ | Other features | |
| Privacy type | Privacy shutter | AC adapter included | ✓ |
| 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) | | |
| Mobile network connection * | ✗ | | |
| Antenna type | 2x2 | | |
| WLAN controller model | Intel Dual Band Wireless-AC 9560 | | |
| Ethernet LAN | ✓ | | |
| Ethernet LAN data rates | 10,100,1000 Mbit/s | | |

Network

Bluetooth



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