# ThinkPad T490s 20NX0072US

***Product***
ThinkPad T490s

***Region***
NA

***Country/Region***
USA

***Machine Type***
20NX

***TopSeller***
TopSeller

***Processor***
Intel Core i7-8665U (4C / 8T, 1.9 / 4.8GHz, 8MB)

***Graphics***
Integrated Intel UHD Graphics 620

***Chipset***
Intel SoC Platform

***Memory***
16GB Soldered DDR4-2400

***Display***
14" FHD (1920x1080) IPS 400nits Anti-glare, ThinkPad Privacy Guard

***Multi-touch***
None

***Storage***
512GB SSD M.2 2280 PCIe NVMe Opal2

***Optical***
None

***WLAN + Bluetooth***
Intel 9560 11ac, 2x2 + BT5.0

***WWAN***
None

***SIM Card***
None

***Smart Card Reader***
None

***Monitor Cable***
None

***Bundled Accessories***
None

***Color***
Black

***Case Material***
CFRP Hybrid

***Camera***
720p + IR

***Keyboard***
Backlit, English

***Fingerprint Reader***
Fingerprint Reader

***NFC***
None

***TPM***
Discrete TPM 2.0

***Battery***
Integrated 57Wh

***Power Adapter***
65W USB-C

***System Management***
Intel vPro

***Operating System***
Windows 10 Pro 64, English

***Bundled Software***
None

***Base Warranty***
3-year, Depot

***Bundled Service***
None

***End of Support***
2025-10-03

***Announce Date***
2019-09-03

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***Recommended Services***

***Best***
3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

***Better***
3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

***Good***
3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36152)

**Notes:**

**Battery life** is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

**California Electronic Waste Recycling Fee**
In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: **https://www.calrecycle.ca.gov/Electronics/Consumer**

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# ThinkPad T490s Platform Specifications

*Product Specifications Reference (PSREF)*

**Processor**

8th Generation Intel® Core™ i5 / i7 Processor

| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics |
|---|---|---|---|---|---|---|---|
| i5-8265U | 4 | 8 | 1.6 GHz | 3.9 GHz | 6MB | DDR4-2400 | Intel UHD Graphics 620 |
| i5-8365U | | | 1.6 GHz | 4.1 GHz | 6MB | | |
| i7-8565U | | | 1.8 GHz | 4.6 GHz | 8MB | | |
| i7-8665U | | | 1.9 GHz | 4.8 GHz | 8MB | | |

**Graphics**

Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or Thunderbolt;
supports three independent displays;
Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to systemboard, no sockets
** Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation*

**Display**

| Size | Resolution | Type | Surface | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle |
|---|---|---|---|---|---|---|---|---|
| 14.0" | FHD (1920x1080) | IPS | Anti-glare | 250 nits (non-touch) 300 nits (multi-touch) | 16:9 | 700:1 | 45% | 170° |
| 14.0" | FHD (1920x1080) Low Power | IPS | Anti-glare | 400 nits | 16:9 | 800:1 | 72% | 170° |
| 14.0" | FHD (1920x1080) ThinkPad Privacy Guard | IPS | Anti-glare | 400 nits | 16:9 | 1000:1 | 72% | 170° |
| 14.0" | WQHD (2560x1440) HDR, Dolby Vision™ | IPS | Glossy | 500 nits | 16:9 | 1500:1 | 100% Adobe | 170° |

**Multi-touch *(opt)***

On-cell touch, supports 10-finger gesture (FHD only)

**Storage**

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
- Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4

**Optical**

None

**Ethernet**

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2

**WLAN + Bluetooth™ *(optional)***

*One of the following, configurable by model:*

- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0
- Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0

**WWAN *(optional)***

*One of the following, configurable by model:*

- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card

** For non-WWAN model, it means the model is NOT WWAN upgradable*

**SIM card *(opt)***

Nano-SIM card slot, optional Verizon LTE (US) SIM card

**Dimensions**

*WxDxH (black with FHD / Privacy Guard):*
12.95" x 8.90" x 0.66"; 329.0mm x 226.15mm x 16.7mm
*WxDxH (black with FHD Low Power / WQHD):*
12.94" x 8.89" x 0.63"; 328.8mm x 225.8mm x 16.1mm
*WxDxH (silver):* 12.96" x 8.92" x 0.68"; 329.15mm x 226.45mm x 17.2mm

**Weight**

| Models | Black with FHD | Black with FHD Low Power / WQHD / Privacy Guard | Silver |
|---|---|---|---|
| Weight | 2.98 lb / 1.35 kg | 2.81 lb / 1.27 kg | 3.29 lb / 1.49 kg |

**Case color**

Black or Silver

**Case material**

*Display cover:* CFRP Hybrid (black) or Aluminum (silver);
*Bottom:* Magnesium

**Smart card reader**

*Optional:* Smart card reader

**Media reader**

MicroSD card reader

**Ports**

Two USB 3.1 Gen 1 (one Always On),
one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),
one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP),
HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models),
headphone / microphone combo jack, optional smart card reader,
microSD card reader, side docking connector, security keyhole
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

**Monitor cable *(optional)***

*HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
*USB-C to VGA:* Lenovo USB-C to VGA Adapter
*USB-C to DP:* Lenovo USB-C to DisplayPort Adapter

**Bundled Accy**

*Optional:* ThinkPad Ethernet Extension Adapter Gen 2

**Camera**

*One of the following, configurable by model:*

- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus

**Audio support**

HD Audio, Realtek® ALC3287 codec /
stereo speakers, 1W x 2, Dolby® Audio™ Premium /
dual array far-field microphone, headphone / microphone combo jack

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

**UltraNav™**

TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

**Security chip**

Discrete TPM 2.0, TCG Certified

**System Mgt *(opt)***

Intel vPro Technology

**Fingerprint reader**

*Optional:* Touch style match on chip fingerprint reader on the palm rest

**NFC *(optional)***

Near Field Communication

**Battery**

Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Max battery life**

*MobileMark® 2014:* 20 hr
** Battery life varies significantly with settings, usage, & other factors*

**AC adapter**

45W, 65W, or 65W slim USB-C AC adapter

**Operating system**

*Optional:* Windows® 10 Home 64 or Windows 10 Pro 64

**Limited warranty**

*One of the following, configurable by model:*

- 1-year depot repair service
- 1-year depot with 2-year planar repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

**Mil-Spec test**

MIL-STD-810G military testing

**Environment**

EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant

Note: The specifications above may not be available in all regions.

# ThinkPad T490s











