

# ThinkPad T490 20N2000RPB

**Product**  
ThinkPad T490

**Region**  
EET

**Country/Region**  
Poland

**Machine Type**  
20N2

**TopSeller**  
TopSeller

**Processor**  
Core i7-8565U (4C / 8T, 1.8 / 4.6GHz, 8MB)

**Graphics**  
Integrated Intel UHD Graphics 620

**Chipset**  
Intel SoC Platform

**Memory**  
8GB Soldered DDR4-2400

**Display**  
14" FHD (1920x1080) IPS 250nits Anti-glare

**Multi-touch**  
None

**Storage**  
256GB 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**  
Smart Card Reader

**RFID Reader**  
None

**Monitor Cable**  
None

**Bundled Accessories**  
None

**Color**  
Black

**Camera**  
720p

**Keyboard**  
Backlit

**Fingerprint Reader**  
Touch Fingerprint Reader

**NFC**  
None

**TPM**  
Discrete TPM 2.0

**Battery**  
Integrated 50Wh

**Power Adapter**  
65W USB-C

**System Management**  
None

**Operating System**  
Windows 10 Pro 64

**Bundled Software**  
None

**Base Warranty**  
3-year, Depot

**Upsell Service Bundles**  
None

**End of Support**  
2025-04-19

**Announce Date**  
2019-03-19

## 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.



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# ThinkPad T490 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 only or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX250, 2GB GDDR5 memory; 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                   | 48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, one DDR4 SO-DIMM socket<br>* 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"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HD (1366x768)                           | TN           | Anti-glare     | 220 nits                                       | 16:9         | 400:1          | 45%                    | 90°           |
|                          | 14.0"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FHD (1920x1080)*                        | IPS          | Anti-glare     | 250 nits (non-touch)<br>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)<br>* Only FHD and FHD Privacy panels are available for 20Q9 / 20QH models model                                                                                                                                                                                                                                                                                                                                                                        |                                         |              |                |                                                |              |                |                        |               |
| Storage                  | <ul style="list-style-type: none"><li>M.2 2280 SSD / SATA 6.0Gb/s</li><li>M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4</li><li>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2</li><li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4</li></ul>                                                                                                                                                                                                                                            |                                         |              |                |                                                |              |                |                        |               |
| Optical                  | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |              |                |                                                |              |                |                        |               |
| Ethernet                 | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                                                                                                                                             |                                         |              |                |                                                |              |                |                        |               |
| WLAN (optional)          | Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |              |                |                                                |              |                |                        |               |
| Bluetooth™ (opt)         | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |              |                |                                                |              |                |                        |               |
| WWAN (optional)          | One of the following, configurable by model: <ul style="list-style-type: none"><li>Wireless WAN upgradable</li><li>Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)</li><li>Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card</li><li>Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card</li></ul> * Only non-WWAN and WWAN upgradable are available on 20Q9 / 20QH models<br>* 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 Weight        | WxDxH: 12.95" x 8.94" x 0.70"; 329mm x 227mm x 17.9mm                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |              |                |                                                |              |                |                        |               |
|                          | Models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FHD                                     |              |                | FHD Low Power / WQHD                           |              |                |                        |               |
| Case color Case material | Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.41 lb / 1.55 kg                       |              |                | 3.23 lb / 1.46 kg                              |              |                |                        |               |
|                          | Black<br>Display cover: PPS / 50% GF;<br>Keyboard cover: PC/ABS + Magnesium alloy (with ISO 22196 compliant anti-microbial surface treatment for 20Q9 / 20QH models only);<br>Bottom: PA / 50% GF                                                                                                                                                                                                                                                                                                           |                                         |              |                |                                                |              |                |                        |               |
| Smart card reader        | Optional: Smart card reader (NOT for 20Q9 / 20QH models)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |              |                |                                                |              |                |                        |               |
| RFID reader              | RFID reader supporting RFID / NFC (ONLY for ALL 20Q9 / 20QH models)                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |              |                |                                                |              |                |                        |               |
| 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 (RJ-45), nano-SIM card slot (WWAN model), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole<br>* 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<br>USB-C to VGA: Lenovo USB-C to VGA Adapter<br>USB-C to HDMI: Lenovo USB-C to HDMI Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter                                                                                                                                                                                                                                                                                                             |                                         |              |                |                                                |              |                |                        |               |
| Bundled Accy             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |              |                |                                                |              |                |                        |               |
| Camera (optional)        | One of the following, configurable by model: <ul style="list-style-type: none"><li>HD720p camera with ThinkShutter camera privacy, fixed focus</li><li>IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus</li></ul>                                                                                                                                                                                                                                                                  |                                         |              |                |                                                |              |                |                        |               |
| Audio support            | HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W 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 or FIPS 201 fingerprint reader on palm rest                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |              |                |                                                |              |                |                        |               |
| NFC (optional)           | NFC module or NFC support via RFID reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |              |                |                                                |              |                |                        |               |
| Battery                  | Integrated Li-ion 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr)                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |              |                |                                                |              |                |                        |               |
| Max battery life         | MobileMark® 2014: 16.11 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |              |                |                                                |              |                |                        |               |
| AC adapter               | 45W or 65W USB Type-C AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |              |                |                                                |              |                |                        |               |
| Operating System         | Optional: Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |              |                |                                                |              |                |                        |               |
| Limited warranty         | One of the following, configurable by model: <ul style="list-style-type: none"><li>1-year depot repair service</li><li>3-year/1-yr battery depot repair service</li><li>3-year/1-yr battery limited onsite service</li></ul>                                                                                                                                                                                                                                                                                |                                         |              |                |                                                |              |                |                        |               |
| 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.

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