

# ThinkPad T490 20N20076GE

**Product**

ThinkPad T490

**Region**

WE

**Country/Region**

Germany

**Machine Type**

20N2

**TopSeller**

TopSeller

**Processor**

Intel Core i5-8265U (4C / 8T, 1.6 / 3.9GHz, 6MB)

**Graphics**

Integrated Intel UHD Graphics 620

**Chipset**

Intel SoC Platform

**Memory**

8GB Soldered DDR4-2400

**Display**

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

**Multi-touch**

None

**Storage**

256GB SSD M.2 2280 PCIe NVMe Opal2

**Optical**

None

**WLAN + Bluetooth**

Intel 9560 11ac, 2x2 + BT5.0

**WWAN**

WWAN Upgradable

**SIM Card**

None

**Smart Card Reader**

Smart Card Reader

**Monitor Cable**

None

**Bundled Accessories**

None

**Color**

Black

**Camera**

720p + IR

**Keyboard**

Backlit, German

**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, German

**Bundled Software**

None

**Base Warranty**

3-year, Depot

**Bundled Service**

3Y Onsite upgrade from 3Y Depot/CCI (5WS0A23006)

**End of Support**

2025-10-17

**Announce Date**

2019-09-17

**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                                                                                                                                                                                                                                                                                                                                   |                                        |              |                |                                                |              |                |                        | Dimensions<br>Weight     | WxDxH: 12.95" x 8.94" x 0.70"; 329mm x 227mm x 17.9mm                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                              |                   |                      |                   |  |
|                              | Processor Number                                                                                                                                                                                                                                                                                                                                                                | # of Cores                             | # of Threads | Base Frequency | Max Turbo Frequency                            | Cache        | Memory Types   | Processor Graphics     |                          | Models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HD                                                                                                                                                                                           | FHD               | FHD Low Power / WQHD | Privacy Guard     |  |
|                              | i5-8265U                                                                                                                                                                                                                                                                                                                                                                        | 4                                      | 8            | 1.6 GHz        | 3.9 GHz                                        | 6MB          | DDR4-2400      | Intel UHD Graphics 620 |                          | Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.37 lb / 1.53 kg                                                                                                                                                                            | 3.41 lb / 1.55 kg | 3.23 lb / 1.46 kg    | 3.56 lb / 1.61 kg |  |
|                              | 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          |                |                        |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |                   |                      |                   |  |
|                              | or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA)                                                                                                                                                                                                                                                                                                         |                                        |              |                |                                                |              |                |                        | Case color               | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                              |                   |                      |                   |  |
|                              | Processor Number                                                                                                                                                                                                                                                                                                                                                                | # of Cores                             | # of Threads | Base Frequency | Max Turbo Frequency                            | Cache        | Memory Types   | Processor Graphics     | Case material            | Display cover: PPS / 50% GF;<br>Bottom: PA / 50% GF                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                   |                      |                   |  |
|                              | i5-10210U                                                                                                                                                                                                                                                                                                                                                                       | 4                                      | 8            | 1.6 GHz        | 4.2 GHz                                        | 6MB          | DDR4-2400      | Intel UHD Graphics     | Smart card reader        | Optional: Smart card reader                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                              |                   |                      |                   |  |
|                              | i7-10510U                                                                                                                                                                                                                                                                                                                                                                       |                                        |              | 1.8 GHz        | 4.9 GHz                                        | 8MB          |                |                        | Media reader             | MicroSD card reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                   |                      |                   |  |
| Graphics                     | Intel UHD Graphics 620 or Intel UHD Graphics in processor only or Intel UHD Graphics 620 or Intel UHD Graphics 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)                                   |                                        |              |                |                                                |              |                |                        | 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 models), 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 |                                                                                                                                                                                              |                   |                      |                   |  |
| Chipset                      | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                             |                                        |              |                |                                                |              |                |                        | Monitor cable (optional) | HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |                   |                      |                   |  |
| 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                                                                                                                                                                         |                                        |              |                |                                                |              |                |                        | Bundled Accy             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                              |                   |                      |                   |  |
| Display                      | Size                                                                                                                                                                                                                                                                                                                                                                            | Resolution                             | Type         | Surface        | Brightness                                     | Aspect Ratio | Contrast Ratio | Color Gamut            | Viewing Angle            | Camera (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | One of the following, configurable by model:<br>• HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus |                   |                      |                   |  |
|                              | 14.0"                                                                                                                                                                                                                                                                                                                                                                           | HD (1366x768)                          | TN           | Anti-glare     | 220 nits                                       | 16:9         | 400:1          | 45%                    | 90°                      | Audio support                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack                                       |                   |                      |                   |  |
|                              | 14.0"                                                                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080)                        | IPS          | Anti-glare     | 250 nits (non-touch)<br>300 nits (multi-touch) | 16:9         | 700:1          | 45%                    | 170°                     | Keyboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight                                                                                                                           |                   |                      |                   |  |
|                              | 14.0"                                                                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) Low Power              | IPS          | Anti-glare     | 400 nits                                       | 16:9         | 800:1          | 72%                    | 170°                     | UltraNav™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                |                   |                      |                   |  |
|                              | 14.0"                                                                                                                                                                                                                                                                                                                                                                           | FHD (1920x1080) ThinkPad Privacy Guard | IPS          | Anti-glare     | 400 nits                                       | 16:9         | 1000:1         | 72%                    | 170°                     | Security                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                 |                   |                      |                   |  |
|                              | 14.0"                                                                                                                                                                                                                                                                                                                                                                           | WQHD (2560x1440) HDR, Dolby Vision™    | IPS          | Glossy         | 500 nits                                       | 16:9         | 1500:1         | 100% Adobe             | 170°                     | Security chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Discrete TPM 2.0, TCG Certified                                                                                                                                                              |                   |                      |                   |  |
|                              |                                                                                                                                                                                                                                                                                                                                                                                 |                                        |              |                |                                                |              |                |                        |                          | System Mgt (opt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Intel vPro Technology                                                                                                                                                                        |                   |                      |                   |  |
| Multi-touch (opt)            | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                                                            |                                        |              |                |                                                |              |                |                        | Fingerprint reader       | Optional: Touch style match on chip fingerprint reader on the palm rest                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                   |                      |                   |  |
| Storage                      | • M.2 2280 SSD / SATA 6.0Gb/s (NOT available in EMEA)<br>• M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4<br>• M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2<br>• Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4                                                                                                                                               |                                        |              |                |                                                |              |                |                        | NFC (optional)           | Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                              |                   |                      |                   |  |
| Optical                      | None                                                                                                                                                                                                                                                                                                                                                                            |                                        |              |                |                                                |              |                |                        | Battery                  | Integrated Li-ion 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |                   |                      |                   |  |
| Ethernet                     | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                 |                                        |              |                |                                                |              |                |                        | Max battery life         | MobileMark® 2014: 16.11 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                   |                      |                   |  |
| WLAN + Bluetooth™ (optional) | One of the following, configurable by model:<br>• Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0<br>• Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 (AX201 for 10th Gen processor only)                                                                                                                                                                   |                                        |              |                |                                                |              |                |                        | AC adapter               | 45W, 65W, or 65W slim USB-C AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                              |                   |                      |                   |  |
| WWAN (optional)              | One of the following, configurable by model:<br>• Wireless WAN upgradable<br>• Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card<br>* For non-WWAN model, it means the model is NOT WWAN upgradable |                                        |              |                |                                                |              |                |                        | Preload                  | One of the following, configurable by model:<br>• Windows® 10 Home 64<br>• Windows 10 Pro 64<br>• Windows 10 Pro in S mode<br>• No OS                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                              |                   |                      |                   |  |
| SIM card (opt)               | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                                                          |                                        |              |                |                                                |              |                |                        | Limited warranty         | One of the following, configurable by model:<br>• 1-year depot repair service<br>• 1-year depot with 2-year planar repair service<br>• 3-year/1-yr battery depot repair service<br>• 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.

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