

# ThinkPad P73 20QR0012US

**Product**

ThinkPad P73

**Region**

NA

**Country/Region**

USA

**Machine Type**

20QR

**TopSeller**

TopSeller

**Processor**

Core i7-9850H (6C / 12T, 2.6 / 4.6GHz, 12MB)

**Graphics**

NVIDIA Quadro RTX 4000 8GB GDDR6

**Chipset**

Intel CM246

**Memory**

1x 32GB DIMM DDR4-2666 non-ECC

**Display**

17.3" UHD (3840x2160) IPS 400nits Anti-glare

**Multi-touch**

None

**Storage**

1TB SSD M.2 2280 PCIe NVMe Opal2

**Optane Memory**

None

**RAID**

No

**Optical**

None

**WLAN + Bluetooth**

Intel AX200 11ax, 2x2 + BT5.0

**WWAN**

None

**SIM Card**

None

**Smart Card Reader**

None

**Monitor Cable**

None

**Bundled Accessories**

None

**Color**

Black

**Camera**

720p + IR

**Keyboard**

Backlit

**Pen**

None

**Fingerprint Reader**

Fingerprint Reader

**NFC**

None

**Color Calibrator**

None

**TPM**

Discrete TPM 2.0

**Battery**

Integrated 99Wh

**Power Adapter**

230W Slim Tip

**System Management**

Intel vPro

**Operating System**

Windows 10 Pro 64

**Bundled Software**

None

**Base Warranty**

3-year, Depot

**Upsell Service Bundles**

None

**End of Support**

2025-09-13

**Announce Date**

2019-08-13

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**Recommended Services****Good**

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07092)

**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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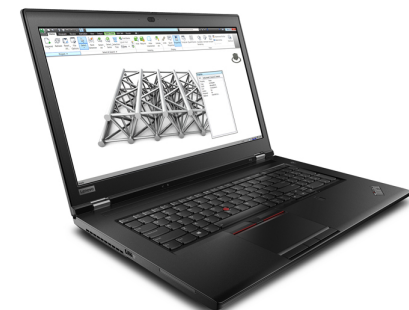
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# ThinkPad P73 Platform Specifications

Product Specifications Reference (PSREF)

|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|----------------|---------------------|-------------------------|----------------|------------------------|---------------|--|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Processor       | 9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor                                                                                                                                                                                                                                                                                                      |                                      |              |                |                     |                         |                |                        |               |  | Dimensions<br>Weight<br>Case color<br>Case material                                                           | WxDxH: 16.38" x 11.06" x 1.02-1.22"; 416mm x 281mm x 25.9-31mm<br>Starting at 7.5 lb (3.4kg)<br>Black<br>Display cover: GFRP + PPS;<br>Bottom: Magnesium/Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
|                 | Processor Number                                                                                                                                                                                                                                                                                                                                                                   | # of Cores                           | # of Threads | Base Frequency | Max Turbo Frequency | Cache                   | Memory Types   | Processor Graphics     |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | i5-9400H                                                                                                                                                                                                                                                                                                                                                                           | 4                                    | 8            | 2.5 GHz        | 4.3 GHz             | 8MB                     | DDR4-2666      | Intel UHD Graphics 630 |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | i7-9750H                                                                                                                                                                                                                                                                                                                                                                           | 6                                    | 12           | 2.6 GHz        | 4.5 GHz             | 12MB                    |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | i7-9850H                                                                                                                                                                                                                                                                                                                                                                           | 6                                    | 12           | 2.6 GHz        | 4.6 GHz             | 12MB                    |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | i9-9880H                                                                                                                                                                                                                                                                                                                                                                           | 8                                    | 16           | 2.3 GHz        | 4.8 GHz             | 16MB                    |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| E-2276M         | 6                                                                                                                                                                                                                                                                                                                                                                                  | 12                                   | 2.8 GHz      | 4.7 GHz        | 12MB                | Intel UHD Graphics P630 |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Graphics        | Intel UHD Graphics 630 or P630 in processor and NVIDIA Quadro® P620 (4GB GDDR5), T2000 (4GB GDDR5), RTX 3000 (6GB GDDR6, VR ready), RTX 4000 Max-Q (8GB GDDR6, VR ready), or RTX 5000 Max-Q (16GB GDDR6, VR ready); supports external digital monitor via HDMI or Thunderbolt™; supports five independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (USB-C or HDMI) |                                      |              |                |                     |                         |                |                        |               |  | Smart card reader<br>ExpressCard<br>Media reader<br>Ports<br><br>Monitor cable (optional)<br><br>Bundled Accy | Optional: Smart card reader<br>None<br>4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card<br>Three USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 2.0, Ethernet (RJ-45), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole<br>* Power Delivery only supports power-out for charging peripherals<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed<br>HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter<br>USB-C to VGA: Lenovo USB-C to VGA Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter<br>None |                                                 |
| Chipset         | Mobile Intel CM246 Chipset                                                                                                                                                                                                                                                                                                                                                         |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Memory          | 128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets<br>* Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation                                                                                                                                                                     |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Display         | Size                                                                                                                                                                                                                                                                                                                                                                               | Resolution                           | Type         | Surface        | Brightness          | Aspect Ratio            | Contrast Ratio | Color Gamut            | Viewing Angle |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | 17.3"                                                                                                                                                                                                                                                                                                                                                                              | FHD (1920x1080)                      | IPS          | Anti-glare     | 300 nits            | 16:9                    | 700:1          | 72%                    | 160°          |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|                 | 17.3"                                                                                                                                                                                                                                                                                                                                                                              | UHD (3840x2160)<br>Dolby Vision™ HDR | IPS          | Anti-glare     | 400 nits            | 16:9                    | 1000:1         | 100%                   | 170°          |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Multi-touch     | None                                                                                                                                                                                                                                                                                                                                                                               |                                      |              |                |                     |                         |                |                        |               |  | 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<br>HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |
| Pen             | None                                                                                                                                                                                                                                                                                                                                                                               |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Storage         | Up to 3 drives (two M.2 SSD and one HDD)<br>• HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™<br>• M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4                                                                                                                                                                                                                       |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Optane™ memory  | Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2                                                                                                                                                                                                                                                                                                                             |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| RAID (optional) | RAID 0/1 support                                                                                                                                                                                                                                                                                                                                                                   |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Optical         | None                                                                                                                                                                                                                                                                                                                                                                               |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Ethernet        | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | Audio support                                                                                                 | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight<br>3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
| WLAN            | Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0                                                                                                                                                                                                                                                                                                                            |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| Bluetooth™      | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                                                              |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| WWAN            | None                                                                                                                                                                                                                                                                                                                                                                               |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| SIM card        | None                                                                                                                                                                                                                                                                                                                                                                               |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
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|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | Security<br>Security chip<br>vPro (optional)<br>Fingerprint reader<br>Color calibration<br>NFC (optional)     | Power-on password, hard disk password, supervisor password, security keyhole<br>Discrete TPM 2.0, TCG Certified<br>Intel vPro Technology<br>Touch style match on chip fingerprint reader on the palm rest<br>Optional: X-Rite Pantone factory color calibration (UHD model only)<br>Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
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|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | Battery<br>Max battery life (MobileMark® 2014)<br>AC adapter                                                  | Integrated Li-ion 99Wh battery, supports Rapid Charge (charge up to 80% in 1hr)<br>Discrete mode: 7 hr; Hybrid mode: 10 hr<br>* Battery life varies significantly with settings, usage, & other factors<br>170W or 230W slim tip AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |
|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
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|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | Operating system                                                                                              | One of the following, configurable by model:<br>• Windows® 10 Home 64<br>• Windows 10 Pro 64<br>• Windows 10 Pro 64 for Workstations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |
|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
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|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | Limited warranty                                                                                              | One of the following, configurable by model:<br>• 1-year depot repair service<br>• 3-year/1-yr battery depot repair service<br>• 3-year/1-yr battery limited onsite service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |
|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
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|                 |                                                                                                                                                                                                                                                                                                                                                                                    |                                      |              |                |                     |                         |                |                        |               |  | 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.

Lenovo  
August 2019

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# ThinkPad P73

