

# ThinkPad P53s 20N6002PUK

**Product**

ThinkPad P53s

**Region**

WE

**Country/Region**

UK

**Machine Type**

20N6

**TopSeller**

TopSeller

**Processor**

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

**Graphics**

NVIDIA Quadro P520 2GB GDDR5

**Chipset**

Intel SoC Platform

**Memory**

8GB Soldered + 8GB DIMM DDR4-2400

**Storage**

512GB SSD M.2 2280 PCIe NVMe Opal2

**Display**

15.6" FHD (1920x1080) IPS 250nits Anti-glare, 45% Gamut

**Touchscreen**

None

**Media Reader**

MicroSD Reader

**Ethernet**

100/1000M

**Optical**

None

**WLAN + Bluetooth**

Intel 9560 11ac, 2x2 + BT5.0

**WWAN**

None

**SIM Card**

None

**Smart Card Reader**

Smart Card Reader

**Monitor Cable**

None

**Case Material**

PPS / 50% GF (Top), PA / 50% GF (Bottom)

**Bundled Accessories**

None

**Camera**

720p + IR with ThinkShutter

**Microphone**

2x, Array

**Color**

Black

**Keyboard**

Backlit, English (UK)

**Fingerprint Reader**

Touch Style, Match-on-Chip

**NFC**

None

**TPM**

Discrete TPM 2.0

**Battery**

Integrated 57Wh

**Power Adapter**

65W USB-C

**System Management**

None

**Operating System**

Windows 10 Pro 64, English

**Bundled Software**

None

**Base Warranty**

3-year, Depot

**Bundled Service**

3Y Onsite upgrade from 3Y Depot/CCI (5WS0V07088)

**EAN / UPC**

0194552014452

**End of Support**

2025-09-20

**Announce Date**

2019-08-20

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**Recommended Services****Better**

4Y Premier Support Upgrade from 3Y Onsite (5WS0V07069)

**Good**

3Y Premier Support Upgrade from 3Y Onsite (5WS0V07066)

**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 P53s Platform Specifications

Product Specifications Reference (PSREF)



|                          |   |                                      |              |                |                     |              |                |                        |               |  |  |
|--------------------------|---|--------------------------------------|--------------|----------------|---------------------|--------------|----------------|------------------------|---------------|--|--|
| Processor                | 8th Generation Intel® Core™ i7 Processor  |                                      |              |                |                     |              |                |                        |               | Dimensions<br>Weight<br>Case color<br>Case material  | <i>WxDxH:</i> 14.40" x 9.76" x 0.75"; 365.8mm x 248mm x 19.1mm<br>starting at 3.87 lb / 1.75 kg<br>Black<br><i>Display cover:</i> PPS / 50% GF;<br><i>Bottom:</i> PA / 50% GF  |
|                          | Processor Number  | # of Cores                           | # of Threads | Base Frequency | Max Turbo Frequency | Cache        | Memory Types   | Processor Graphics     |               |  |  |
|                          | i7-8565U  | 4                                    | 8            | 1.8 GHz        | 4.6 GHz             | 8MB          | DDR4-2400      | Intel UHD Graphics 620 |               | Smart card reader<br>Media reader<br>Ports   | <i>Optional:</i> Smart card reader<br>MicroSD card reader<br>Two USB 3.1 Gen 1 (one Always On),<br>one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),<br>one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP),<br>HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models),<br>headphone / microphone combo jack, optional smart card reader,<br>microSD card reader, side docking connector, security keyhole<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed |
|                          | i7-8665U  |                                      |              | 1.9 GHz        | 4.8 GHz             | 8MB          |                |                        |               |  |  |
| Graphics                 | Intel UHD Graphics 620 in processor and NVIDIA Quadro® P520, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 3840x2160@60Hz (USB-C); 3840x2160@30Hz (HDMI)   |                                      |              |                |                     |              |                |                        |               | Monitor cable (optional)   | <i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter<br><i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter<br><i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter  |
| Chipset                  | Intel SoC (System on Chip) platform 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   |                                      |              |                |                     |              |                |                        |               |  |  |
| Memory                   |   |                                      |              |                |                     |              |                |                        |               | Bundled Accy   | None   |
| Display                  | Size  | Resolution                           | Type         | Surface        | Brightness          | Aspect Ratio | Contrast Ratio | Color Gamut            | Viewing Angle |  |  |
|                          | 15.6"   | FHD (1920x1080)                      | IPS          | Anti-glare     | 250 nits            | 16:9         | 700:1          | 45%                    | 170°          | 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 |  |
|                          | 15.6"   | UHD (3840x2160)<br>Dolby Vision™ HDR | IPS          | Anti-glare     | 500 nits            | 16:9         | 1200:1         | 100% Adobe             | 170°          |  |  |
| Multi-touch (opt)<br>Pen | On-cell touch, supports 10-finger gesture (FHD only)<br>None  |                                      |              |                |                     |              |                |                        |               | Audio support  | HD Audio, Realtek® ALC3287 codec /<br>stereo speakers, 2W x 2, Dolby® Audio™ Premium /<br>optional dual array far-field microphone, headphone / microphone combo jack  |
| Storage                  | Supports single sided M.2 2280 drives only<br>• M.2 2280 SSD / SATA 6.0Gb/s<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   |                                      |              |                |                     |              |                |                        |               |  |  |
| Optical                  | None  |                                      |              |                |                     |              |                |                        |               | Keyboard<br>UltraNav™  | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight<br>TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad  |
| Ethernet                 | <i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville)<br><i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)   |                                      |              |                |                     |              |                |                        |               |  |  |
| WLAN                     | Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0  |                                      |              |                |                     |              |                |                        |               | Security<br>Security chip<br>System Mgt (opt)<br>Fingerprint reader<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><i>Optional:</i> Touch style match on chip fingerprint reader on the palm rest<br>Near Field Communication   |
| Bluetooth™               | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter   |                                      |              |                |                     |              |                |                        |               |  |  |
| WWAN (optional)          | One of the following, configurable by model:<br>• Wireless WAN upgradable (special bid only in EMEA)<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>* For non-WWAN model, it means the model is NOT WWAN upgradable |                                      |              |                |                     |              |                |                        |               | Battery<br>Max battery life  | Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)<br>MobileMark® 2014: 15 hr (FHD model) / 10 hr (UHD model)<br>* Battery life varies significantly with settings, usage, & other factors  |
| SIM card (opt)           | Nano-SIM card slot, optional Verizon LTE (US) SIM card  |                                      |              |                |                     |              |                |                        |               |  |  |
|                          |   |                                      |              |                |                     |              |                |                        |               | AC adapter   | 65W USB Type-C AC adapter  |
|                          |   |                                      |              |                |                     |              |                |                        |               |  |  |
|                          |   |                                      |              |                |                     |              |                |                        |               | Operating system   | Windows® 10 Home 64 or Windows 10 Pro 64   |
|                          |   |                                      |              |                |                     |              |                |                        |               |  |  |
|                          |   |                                      |              |                |                     |              |                |                        |               | 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  |
|                          |   |                                      |              |                |                     |              |                |                        |               |  |  |
|                          |   |                                      |              |                |                     |              |                |                        |               | Mii-Spec test  | MIL-STD-810G military testing  |
|                          |   |                                      |              |                |                     |              |                |                        |               |  |  |
|                          |   |                                      |              |                |                     |              |                |                        |               | Environment  | EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant  |
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Note: The specifications above may not be available in all regions.

Lenovo  
November 2019

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