

# ThinkPad P52s 20LB000HSP

**Product**

ThinkPad P52s

**Region**

WE

**Country/Region**

Spain

**Machine Type**

20LB

**TopSeller**

TopSeller

**Processor**

Intel Core i7-8550U (4C / 8T, 1.8 / 4.0GHz, 8MB)

**Graphics**

NVIDIA Quadro P500 2GB GDDR5

**Chipset**

Intel SoC Platform

**Memory**

1x 8GB DIMM DDR4-2400

**Storage**

256GB SSD M.2 2280 PCIe NVMe Opal2

**Optane Memory**

None

**Display**

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

**Touchscreen**

None

**Media Reader**

4-in-1

**Ethernet**

100/1000M

**Optical**

None

**WLAN + Bluetooth**

Intel 8265 11ac, 2x2 + BT4.1

**WWAN**

WWAN Upgradable

**SIM Card**

None

**Smart Card Reader**

Smart Card Reader

**Case Material**

GFRP + PPS (Top), GFRP (Bottom)

**Monitor Cable**

None

**Camera**

720p with ThinkShutter

**Microphone**

2x, Array

**Color**

Black

**Keyboard**

Backlit, Spanish

**Fingerprint Reader**

Touch Style, Match-on-Chip

**NFC**

NFC

**TPM**

Discrete TPM 2.0

**Battery**

Integrated 32Wh + Swappable 72Wh

**Power Adapter**

65W USB-C

**System Management**

None

**Operating System**

Windows 10 Pro 64

**Bundled Software**

None

**Base Warranty**

3-year, Onsite

**Bundled Service**

None

**EAN / UPC**

0192158796116

**End of Support**

2024-03-06

**Announce Date**

2018-02-06

---

**Recommended Services****Best**

5Y Premier Support Upgrade from 3Y Onsite (5WS0V07089)

**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.

**L** [WWW.LENOVO.COM](http://WWW.LENOVO.COM)

Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.



<https://psref.lenovo.com>

Visit psref website for the latest version of Product Specifications Reference.

© Lenovo, 2020. All rights reserved.



Lenovo™

# ThinkPad P52s Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------|---------------------|-------|--------------|------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|------|-------------|-------------|-------------|------------------|---------|---------|---------|---------|---------|
| Processor         | 8th Generation Intel® Core™ i5 / i7 Processor                                                                                                                                                                                                                                                                                                                                                                                             |            |              |                |                     |       |              |                        | Dimensions<br>Weight<br>Case color<br>Case material | WxDxH: 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm<br>starting at 4.39 lb / 1.99 kg<br>Black<br>Display cover: GFRP + PPS;<br>Bottom: GFRP                                                                                                                                                                                                                                                                                                                                             |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                          | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   | i5-8350U                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4          | 8            | 1.7 GHz        | 3.6 GHz             | 6MB   | DDR4-2400    | Intel UHD Graphics 620 |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   | i7-8550U                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |              | 1.8 GHz        | 4.0 GHz             | 8MB   |              |                        |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
| i7-8650U          | 1.9 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |              | 4.2 GHz        | 8MB                 |       |              |                        |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
| Graphics          | Intel UHD Graphics 620 in processor and NVIDIA Quadro® P500, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304 @60Hz (USB Type-C); 4096x2160 @30Hz (HDMI)                                                                                                                                                                                        |            |              |                |                     |       |              |                        | Smart card reader                                   | Optional: Smart card reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |      |             |             |             |                  |         |         |         |         |         |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                                                                       |            |              |                |                     |       |              |                        | Media reader                                        | 4-in-1 reader (MMC, SD, SDHC, SDXC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |      |      |             |             |             |                  |         |         |         |         |         |
| Memory            | 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets<br>* System clocks down for processors with lower memory controller                                                                                                                                                                                                                                                                                               |            |              |                |                     |       |              |                        | 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, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed |        |      |      |             |             |             |                  |         |         |         |         |         |
| Display           | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 45% gamut, 170° viewing angle<br>Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle                                                                                                                           |            |              |                |                     |       |              |                        | Monitor cable (optional)                            | HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter                                                                                                                                                                                                                                                                                                                                                                                                      |        |      |      |             |             |             |                  |         |         |         |         |         |
| Multi-touch (opt) | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                                                                                                                      |            |              |                |                     |       |              |                        | Camera (optional)                                   | One of the following, configurable by model:<br>• HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera, fixed focus                                                                                                                                                                                                                                                                                                                                              |        |      |      |             |             |             |                  |         |         |         |         |         |
| Pen               | None                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |              |                |                     |       |              |                        | Audio support                                       | HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / optional dual array microphone, headphone / microphone combo jack                                                                                                                                                                                                                                                                                                                                                    |        |      |      |             |             |             |                  |         |         |         |         |         |
| Storage           | System has one HDD slot or one M.2 2280 slot exclusively for storage, and supports single sided M.2 2280 drives only<br>Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™<br>Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)<br>Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s<br>Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN |            |              |                |                     |       |              |                        | Keyboard                                            | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight                                                                                                                                                                                                                                                                                                                                                                                                                       |        |      |      |             |             |             |                  |         |         |         |         |         |
| Optane™ memory    | Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2                                                                                                                                                                                                                                                                                                                                                                                    |            |              |                |                     |       |              |                        | UltraNav™                                           | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                                                                                            |        |      |      |             |             |             |                  |         |         |         |         |         |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |              |                |                     |       |              |                        | Security                                            | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                                                                                                                                             |        |      |      |             |             |             |                  |         |         |         |         |         |
| Ethernet          | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | Security chip                                       | Discrete TPM 2.0, TCG Certified                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
| WLAN + Bluetooth™ | Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card<br>* Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS                                                                                                                                                                                                                                                                                |            |              |                |                     |       |              |                        | vPro (optional)                                     | Intel vPro Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |      |             |             |             |                  |         |         |         |         |         |
| WWAN (optional)   | One of the following, configurable by model:<br>• Wireless WAN upgradable<br>• Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)<br>• Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card<br>* For non-WWAN model, it means the model is NOT WWAN upgradable                                                                                                      |            |              |                |                     |       |              |                        | Fingerprint reader                                  | Optional: Touch style match on chip fingerprint reader on the palm rest anti-spoofing technology                                                                                                                                                                                                                                                                                                                                                                                                         |        |      |      |             |             |             |                  |         |         |         |         |         |
| SIM card (opt)    | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                                                                                                                    |            |              |                |                     |       |              |                        | NFC (optional)                                      | Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | Battery                                             | Optional integrated Li-ion 32Wh battery and swappable Li-ion 24Wh, 48Wh, or 72Wh battery                                                                                                                                                                                                                                                                                                                                                                                                                 |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | Max battery life (MobileMark® 2014)                 | <table><tr><td>Models</td><td>48Wh</td><td>72Wh</td><td>32Wh + 24Wh</td><td>32Wh + 48Wh</td><td>32Wh + 72Wh</td></tr><tr><td>Max battery life</td><td>12.2 hr</td><td>18.5 hr</td><td>13.5 hr</td><td>20.1 hr</td><td>26.3 hr</td></tr></table><br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                             | Models | 48Wh | 72Wh | 32Wh + 24Wh | 32Wh + 48Wh | 32Wh + 72Wh | Max battery life | 12.2 hr | 18.5 hr | 13.5 hr | 20.1 hr | 26.3 hr |
| Models            | 48Wh                                                                                                                                                                                                                                                                                                                                                                                                                                      | 72Wh       | 32Wh + 24Wh  | 32Wh + 48Wh    | 32Wh + 72Wh         |       |              |                        |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
| Max battery life  | 12.2 hr                                                                                                                                                                                                                                                                                                                                                                                                                                   | 18.5 hr    | 13.5 hr      | 20.1 hr        | 26.3 hr             |       |              |                        |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | 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>• 1-year depot with 2-year system board repair service<br>• 3-year/1-yr battery depot repair service<br>• 3-year/1-yr battery limited onsite service<br>• 3-year (including battery) limited onsite service                                                                                                                                                                                                             |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | Mil-Spec test                                       | MIL-STD-810G military testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |      |      |             |             |             |                  |         |         |         |         |         |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |                |                     |       |              |                        | Environment                                         | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |             |             |             |                  |         |         |         |         |         |

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

Lenovo  
November 2019

Lenovo

ThinkPad P52s

