## OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>2.</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>3.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>4.</td>
<td>Kensington Security Slot</td>
</tr>
<tr>
<td>5.</td>
<td>USB-C 3.2 Gen 1</td>
</tr>
<tr>
<td>6.</td>
<td>USB-C 3.2 Gen 2 / Thunderbolt 3</td>
</tr>
<tr>
<td>7.</td>
<td>Side docking connector</td>
</tr>
<tr>
<td>8.</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>9.</td>
<td>HDMI 1.4b</td>
</tr>
<tr>
<td>10.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>11.</td>
<td>MicroSD card reader</td>
</tr>
</tbody>
</table>

**Notes:**
- Ports with * are only available on selected models
- Optional nano-SIM card slot on the rear side (not shown on the sample product above)
- The combination of 5, 6 and 7 is side docking connector
**PERFORMANCE**

**Processor**

**Processor Family**

10th Generation Intel® Core™ i5 / i7 Processor

**Processor**

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6GHz</td>
<td>4.2GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i5-10310U</td>
<td>4</td>
<td>8</td>
<td>1.7GHz</td>
<td>4.4GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10510U</td>
<td>4</td>
<td>8</td>
<td>1.8GHz</td>
<td>4.9GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10610U</td>
<td>4</td>
<td>8</td>
<td>1.8GHz</td>
<td>4.9GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10710U</td>
<td>6</td>
<td>12</td>
<td>1.1GHz</td>
<td>4.7GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10810U</td>
<td>6</td>
<td>12</td>
<td>1.1GHz</td>
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<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**

- Windows® 10 Home 64
- Windows 10 Pro 64
- Red Hat Enterprise Linux (certified only)
- Ubuntu Linux LTS
- No operating system

**Graphics**

**Graphics**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® Quadro® P520</td>
<td>Discrete</td>
<td>2GB GDDR5</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

**Monitor Support**

**Monitor Support**

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 4096x2160@24Hz), USB-C (up to 4096x2304@60Hz) or Thunderbolt™ (up to 4096x2304@60Hz)

**Chipset**

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

**Max Memory**

- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-2666
- Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-2666

**Memory Slots**

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**

DDR4-2666 non-ECC

**Notes:**

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.
2. Installed memory is actually DDR4-3200 but may run at DDR4-2666 due to processor limitation

**Storage**

**Storage Support**

One drive, up to 2TB M.2 2280 SSD
### Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>Opal2</td>
</tr>
<tr>
<td>Intel Optane™ Memory with Solid State Storage, M.2 2280</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:
1. M.2 2242 is special bid only

### Removable Storage

- **Optical**
  - None
- **Card Reader**
  - MicroSD card reader

### Multi-Media

#### Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

#### Speakers

Stereo speakers, 2W x2, Dolby® Audio™

#### Microphone

- Dual array microphone, near-field
- No microphone

#### Camera

- 720p, with ThinkShutter, fixed focus
- IR & 720p hybrid, with ThinkShutter, fixed focus
- No camera

### Battery

#### Battery

Integrated Li-Polymer 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

#### Max Battery Life

- MobileMark® 2014: 15.1 hr
- MobileMark 2018: 10.96 hr
- JEITA 2.0: 15.1 hr

Notes:
1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 battery-life benchmark tests. Actual battery life will vary and depends on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

### Power Adapter

#### Power Adapter

- 65W USB-C slim (3-pin) AC adapter
- 65W USB-C slim (2-pin) AC adapter
- 65W USB-C (2-pin) AC adapter
- 65W USB-C (3-pin) AC adapter

### DESIGN

#### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>Type</th>
<th>Brightness</th>
<th>Surface</th>
<th>Aspect</th>
<th>Contrast</th>
<th>Color</th>
<th>Viewing</th>
<th>Key Features</th>
</tr>
</thead>
</table>

ThinkPad P14s Gen 1(Intel) - August 20 2021
ThinkPad P14s Gen 1 (Intel)

<table>
<thead>
<tr>
<th>Model</th>
<th>Display Type</th>
<th>Color Calibration</th>
<th>Touchscreen</th>
<th>Notes</th>
</tr>
</thead>
</table>
|                      |              | X-Rite Pantone factory color calibration (UHD display) | On-cell touch, supports 10-point touch (FHD models only) | 1. 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 |
|                      |              | No color calibration               | Non-touch           | 1. Connectivity                                                      |
|                      |              |                                   |                     |                                                                      |
|                      | FHD (1920x1080) | None                              | IPS 250 nits Anti-glare | Ratio 16:9  Gamut 45% NTSC  Angle 170° |
|                      | FHD (1920x1080) | None                              | IPS 400 nits Anti-glare | Ratio 16:9  Gamut 72% NTSC  Angle 170°  Low power |
|                      | FHD (1920x1080) | Multi-touch IPS 300 nits Anti-glare | Ratio 16:9  Gamut 45% NTSC  Angle 170° |
|                      | FHD (1920x1080) | Multi-touch IPS 500 nits Anti-glare | Ratio 16:9  Gamut 72% NTSC  Angle 170°  ThinkPad Privacy Guard |
|                      | UHD (3840x2160) | None                              | IPS 500 nits Glossy | Ratio 16:9  Gamut 100% Adobe*  Angle 170°  Dolby Vision™, HDR 400 |

**Color Calibration**
- X-Rite Pantone factory color calibration (UHD display)
- No color calibration

**Touchscreen**
- On-cell touch, supports 10-point touch (FHD models only)
- Non-touch

**Input Device**

**Pen**
No support

**Keyboard**
6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

**Keyboard Backlight**
- LED backlight
- No support

**UltraNav™**
TrackPoint® pointing device and Mylar® surface multi-touch touchpad

**Mechanical**

**Dimensions (WxDxH)**
329 x 227 x 17.9 mm (12.95 x 8.94 x 0.70 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHD Low Power models</td>
<td>1.49 kg (3.28 lbs)</td>
</tr>
<tr>
<td>FHD models</td>
<td>1.55 kg (3.43 lbs)</td>
</tr>
<tr>
<td>FHD Privacy Guard models</td>
<td>1.61 kg (3.56 lbs)</td>
</tr>
<tr>
<td>FHD touch models</td>
<td>1.55 kg (3.41 lbs)</td>
</tr>
<tr>
<td>UHD models</td>
<td>1.49 kg (3.28 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
Black

**Case Material**
PPS / 50% GF (top), PA / 50% GF (bottom)

Notes:
1. The system weight varies depending on configurations
Network
Onboard Ethernet
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), supports Wake-on-LAN

WLAN + Bluetooth®
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

WWAN
- Wireless WAN upgradable to 4G
- Integrated Mobile Broadband 4G LTE-A, CAT9, Fibocom L850-GL, M.2 card
- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card
- No support

SIM Card
- Gemalto eSIM
- No SIM card inbox

NFC
- Near Field Communication
- No support

Ports[1]
Standard Ports[2]
- 2x USB 3.2 Gen 1 (one Always On)
- 2x USB-C 3.1 Gen 2 / Thunderbolt 3 (support data transfer, Power Delivery and DisplayPort™ 1.2)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery and DisplayPort 1.2)
- 1x HDMI 1.4b
- 1x microSD card reader
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Side docking connector

Optional Ports
- 1x Nano-SIM card slot (WWAN model)
- 1x Smart card reader

Notes:
1. The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
   - USB 2.0: 480 Mbit/s
   - USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s
   - USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s
   - USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s
   - Thunderbolt 3: 40 Gbit/s
   - FireWire 400: 400 Mbit/s
   - FireWire 800: 800 Mbit/s
2. Depending on many factors, actual data transfer speed may be lower than theoretical speed

Monitor Cable
Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to VGA Adapter

SECURITY & PRIVACY

Security
Security Chip
- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)
Physical Locks
Kensington® Security Slot

Smart Card Reader
• Smart card reader
• No smart card reader

Fingerprint Reader
• Touch style fingerprint reader on palm rest, match-on-chip
• No fingerprint reader

BIOS Security
• Supervisor password
• Power-on password
• Hard disk password
• Self-healing BIOS

Other Security
• (Optional) ThinkShutter camera cover
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert

MANAGEABILITY

System Management

SERVICE

Warranty
Base Warranty
• 1-year depot service
• 1-year depot with 2-year system board service
• 1-year limited onsite service
• 1-year + 2-year depot service
• 1-year + 2-year limited onsite service
• 3-year (1-yr battery) depot service
• 3-year (1-yr battery) limited onsite service
• No base warranty

ENVIRONMENTAL

Operating Environment
Temperature
• Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
• Storage without package: 5°C (41°F) to 43°C (109°F)
• Operating: 5°C (41°F) to 35°C (95°F)

Humidity
• Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
• Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude
Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:
1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

ACCESSORIES
Bundled Accessories
None

CERTIFICATIONS

Green Certifications

Green Certifications
• EPEAT™ Gold
• ENERGY STAR® 8.0
• RoHS compliant

Other Certifications

MIL-Spec Test
MIL-STD-810G military test passed

ISV Certifications

ISV Certifications
Please visit www.thinkworkstations.com/isv-certifications/