## OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>2.</td>
<td>USB 3.2 Gen 2 (Always On and fast charge)</td>
</tr>
<tr>
<td>3.</td>
<td>USB-C 3.2 Gen 1</td>
</tr>
<tr>
<td>4.</td>
<td>Power button</td>
</tr>
<tr>
<td>5.</td>
<td>Kensington Security Slot</td>
</tr>
<tr>
<td>6.</td>
<td>Power connector</td>
</tr>
<tr>
<td>7.</td>
<td>DisplayPort</td>
</tr>
<tr>
<td>8.</td>
<td>2x USB 3.2 Gen 1</td>
</tr>
<tr>
<td>9.</td>
<td>HDMI</td>
</tr>
<tr>
<td>10.</td>
<td>2x USB 3.2 Gen 2</td>
</tr>
<tr>
<td>11.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>12.</td>
<td>4x MiniDP *</td>
</tr>
</tbody>
</table>

**Notes:**
- Ports with * are only available on selected models
PERFORMANCE

Processor

Processor Family
Up to one Intel® Core™ i3 / i5 / i7 / i9 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 i3-10100</td>
<td>4</td>
<td>8</td>
<td>3.6GHz</td>
<td>4.3GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10100T</td>
<td>4</td>
<td>8</td>
<td>3.0GHz</td>
<td>3.8GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10300</td>
<td>4</td>
<td>8</td>
<td>3.7GHz</td>
<td>4.4GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10300T</td>
<td>4</td>
<td>8</td>
<td>3.0GHz</td>
<td>3.9GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10320</td>
<td>4</td>
<td>8</td>
<td>3.8GHz</td>
<td>4.6GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10400</td>
<td>6</td>
<td>12</td>
<td>2.9GHz</td>
<td>4.3GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10400T</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>3.6GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10500</td>
<td>6</td>
<td>12</td>
<td>3.1GHz</td>
<td>4.5GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10500T</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>3.8GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10600</td>
<td>6</td>
<td>12</td>
<td>3.3GHz</td>
<td>4.8GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10600T</td>
<td>6</td>
<td>12</td>
<td>2.4GHz</td>
<td>4.0GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i7-10700</td>
<td>8</td>
<td>16</td>
<td>2.9GHz</td>
<td>4.8GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i7-10700T</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i9-10900</td>
<td>10</td>
<td>20</td>
<td>2.8GHz</td>
<td>5.2GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i9-10900T</td>
<td>10</td>
<td>20</td>
<td>1.9GHz</td>
<td>4.6GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
</tbody>
</table>

Processor Sockets
1x FCLGA1200

Operating System

Operating System**
- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 11 Pro 64
- Windows 11 Home 64
- Ubuntu Linux LTS
- No operating system

Graphics

Integrated Graphics
Intel UHD Graphics 630

Discrete Graphics Support
Supports one optional discrete graphics card

Discrete Graphics Offering**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Memory</th>
<th>Power</th>
<th>Connector</th>
<th>SLI / NVlink</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quadro® P620</td>
<td>2GB GDDR5</td>
<td>40W</td>
<td>4x miniDP 1.4</td>
<td>None</td>
</tr>
<tr>
<td>Quadro P1000</td>
<td>4GB GDDR5</td>
<td>50W</td>
<td>4x miniDP 1.4</td>
<td>None</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports multiple displays via onboard video ports and discrete graphics, the number of maximum monitors supported depends on the graphic card in use

Chipset
Chipset
Intel Q470 chipset

Memory
Max Memory\(^{1}\)
Up to 64GB DDR4-2933
Memory Type
DDR4-2933 non-ECC
Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

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.

Storage
Storage Support
Up to two drives, 2x M.2 PCIe SSD
• M.2 SSD up to 2TB each

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 PCIe SSD</td>
<td>PCIe NVMe</td>
<td>-</td>
<td>256GB / 512GB / 1TB / 2TB</td>
</tr>
</tbody>
</table>

Removable Storage
Optical Support
Optional one 9.0mm optical drive via optical drive kit, DVD-ROM or DVD±RW

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek\(^*\) ALC233 codec

Power Supply

<table>
<thead>
<tr>
<th>Power</th>
<th>Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>170W</td>
<td>Adapter</td>
<td>89%</td>
<td>100V - 240V</td>
</tr>
<tr>
<td>230W</td>
<td>Adapter</td>
<td>89%</td>
<td>100V - 240V</td>
</tr>
</tbody>
</table>

DESIGN

Mechanical
Form Factor
Tiny (1L)
Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>37 x 182.9 x 179 mm (1.5 x 7.2 x 7.0 inches)</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>1.4 kg (3 lbs, maximum configuration)</td>
</tr>
</tbody>
</table>

Bays
No bays
M.2 Slots
Up to 2x M.2 SSD via onboard slots

Expansion Slots
One PCIe 3.0 x16 or x4 slot, low-profile, via riser card

Expansion Slots Offering
One PCIe slot via specific riser card:
Pcie 3.0 x16 (negotiable link width x8) and low profile for discrete graphics card
Pcie 3.0 x4 and low profile for ethernet adapter and Thunderbolt™ adapter

CONNECTIVITY

Network
Onboard Ethernet
Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ45, supports Wake-on-LAN

Optional Ethernet
Additional Ethernet options via PCIe adapter

WLAN + Bluetooth®
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2
- No WLAN and Bluetooth

Ports¹
Front Ports
- 1x USB 3.2 Gen 2 (Always On and fast charge)
- 1x USB-C 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)

Rear Ports²
- 2x USB 3.2 Gen 1 (one supports Smart Power On)
- 2x USB 3.2 Gen 2
- 1x HDMI®
- 1x DisplayPort™
- 1x Ethernet (RJ-45)

Optional Rear Ports***
- 2x USB 3.2 Gen 1
- 1x Thunderbolt
- Optional port 1 (one of VGA / 2nd DisplayPort / 2nd HDMI / serial / USB-C 3.2 Gen 1 with DisplayPort function)
- Optional port 2 (serial)

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. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security
Security Chip
Discrete TPM 2.0, TCG certified

Physical Locks
Kensington® Security Slot

BIOS Security
- Administrator password
- Power-on password

MANAGEABILITY

System Management
- Intel vPro with Intel AMT 14.0 (vPro-enable processor and WiFi needed)
- Standard Manageability

Diagnostic
- Lenovo UEFI Bootable Diagnostics

SERVICE

Warranty
- Base Warranty
  - 3-year limited onsite service with 9x5 NBD (for most models)

ENVIRONMENTAL

Operating Environment
- Temperature
  - Operating: 10°C (50°F) to 35°C (95°F)
  - Storage: -40°C (-40°F) to 60°C (140°F)
- Altitude
  - Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
  - Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)
- Humidity
  - Operating: 20% to 80%
  - Storage: 10% to 90%

CERTIFICATIONS

Green Certifications
- EPEAT™ Silver
- ENERGY STAR® 8.0
- RoHS compliant

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

ISV Certifications
- Please visit www.thinkworkstations.com/isv-certifications/
• Feature with "***" means that one or more offerings listed under the feature could be configured on selected models.

• 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. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

• The specifications on this page may not be available in all regions, and may be changed or updated without notice.