PERFORMANCE

Processor

Processor Family
Up to one Intel® Core™ i9, i7, i5, or i3 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>
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<tr>
<td>Core i3-10100T</td>
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<tr>
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<tr>
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<tr>
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<td>Intel UHD Graphics 630</td>
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<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
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<td>Core i7-10700</td>
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<td>16MB</td>
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<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i9-10900</td>
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<td>20</td>
<td>2.8GHz</td>
<td>5.2GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i9-10900T</td>
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<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
- Windows® 10 Home 64
- Windows 10 Pro 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</td>
<td>None</td>
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<tr>
<td>Quadro P1000</td>
<td>4GB GDDR5</td>
<td>50W</td>
<td>4x miniDP</td>
<td>None</td>
</tr>
</tbody>
</table>

Monitor Support
Supports multiple displays via onboard video ports and discrete graphics

Memory

Memory Type
DDR4-2933 non-ECC

Memory Slots
Two DDR4 SO-DIMM slots
Max Memory
Up to 64GB

Notes:
• 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 2x M.2 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 Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>170W Adapter</td>
<td>89%</td>
<td>100V - 240V</td>
</tr>
<tr>
<td>230W Adapter</td>
<td>89%</td>
<td>100V - 240V</td>
</tr>
</tbody>
</table>

DESIGN

Mechanical
Form Factor
Tiny (1L)
Dimensions (WxDxH)
37 x 183 x 179 mm (1.5 x 7.2 x 7.0 inches)

Weight
1.4 kg (3 lbs, maximum configuration)

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 5.1, M.2 Card
- No WLAN and Bluetooth

Ports
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)

Notes:
- 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, formely USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
  - USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formely 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;

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

Notes:
- For video ports on discrete graphics, please see graphics section

Optional Rear Ports
- 2x USB-A 3.2 Gen 1
- 1x Thunderbolt
- Optional Port 1 (VGA / 2nd DisplayPort / 2nd HDMI / serial / USB-C 3.2 Gen 1 with DisplayPort function, select one)
- Optional Port 2 (serial)

SECURITY & PRIVACY

Security
Security Chip
Discrete TPM 2.0, TCG certified

Physical Locks
Kensington® Security Slot

BIOS Security
- Power-on password
- Administrator password

SERVICE

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

ENVIRONMENTAL

Environmental Specifications

Temperature
Operating: 0°C to 40°C (32°F to 104°F)
Storage: -40°C to 60°C (-40°F to 140°F) in original shipping carton
Storage: -10°C to 60°C (14°F to 140°F) without carton

Altitude
Operating: 0m to 3048m (0ft to 10000ft)
Storage: 0m to 12192m (0ft to 40000ft)

Humidity
Relative Humidity Operating: 10% to 90% (non-condensing)
Relative Humidity Storage/Transit: 10% to 90% (non-condensing)
Wet Bulb Temperature Operating: 25°C (77°F) max
Wet Bulb Temperature Non-operating: 40°C (104°F) max

CERTIFICATIONS

Green Certifications
• EPEAT™ Silver
• ENERGY STAR® 8.0
• GREENGUARD®
• RoHS compliant

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

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