# OVERVIEW

## Ports & Connectors

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Port Details</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>Power button</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Card reader</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4x USB 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3x Flex bay</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Microphone (3.5mm)</td>
<td></td>
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<tr>
<td>7</td>
<td>Audio line-in (3.5mm)</td>
<td></td>
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<tr>
<td>8</td>
<td>Audio line-out (3.5mm)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Serial *</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2x PS/2 ports (keyboard / mouse)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>2x USB 2.0</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4x USB 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>2x Ethernet (RJ-45)</td>
<td></td>
</tr>
</tbody>
</table>

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

### Processor

**Processor Family**

Up to two 205W Gen 1 or Gen 2 Intel® Xeon® Scalable family processors, Bronze, Silver, Gold, or Platinum

**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>Xeon Bronze 3104</td>
<td>6</td>
<td>6</td>
<td>1.7GHz</td>
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<td>8.25MB</td>
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<td>Xeon Bronze 3106</td>
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<td>Xeon Gold 6142</td>
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<td>4.2GHz</td>
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<td>DDR4-2666</td>
<td>-</td>
</tr>
</tbody>
</table>
## Processor Sockets
2x FCLGA3647

## Operating System

### Operating System**
- Windows® 11 Pro 64 for Workstations
- Windows 11 DG Windows 10 Pro 64 for Workstations
- Windows 10 Pro 64 for Workstations
- Ubuntu Linux LTS
- Red Hat Enterprise Linux 8.5 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](https://www.redhat.com/certified-hardware))
- No operating system

## Graphics

### Discrete Graphics Support
Supports up to two NVIDIA® Quadro® RTX 8000 with NVLink

### 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 P400</td>
<td>2GB GDDR5</td>
<td>30W</td>
<td>3x miniDP 1.4</td>
<td>None</td>
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<tr>
<td>Quadro P600</td>
<td>2GB GDDR5</td>
<td>45W</td>
<td>4x miniDP</td>
<td>None</td>
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<tr>
<td>Quadro P620</td>
<td>2GB GDDR5</td>
<td>40W</td>
<td>4x miniDP 1.4</td>
<td>None</td>
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<tr>
<td>Quadro P1000</td>
<td>4GB GDDR5</td>
<td>50W</td>
<td>4x miniDP 1.4</td>
<td>None</td>
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<tr>
<td>Quadro P2000</td>
<td>5GB GDDR5</td>
<td>75W</td>
<td>4x DP</td>
<td>None</td>
</tr>
<tr>
<td>Quadro P2200</td>
<td>5GB GDDR5</td>
<td>75W</td>
<td>4x DP 1.4</td>
<td>None</td>
</tr>
</tbody>
</table>
Monitor Support

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

Chipset

Chipset
Intel C621 chipset

Memory

Max Memory\(^1\)
Up to 1TB DDR4-2933

Memory Type\(^*\)
- DDR4-2666 LRDIMM ECC
- DDR4-2666 RDIMM ECC
- DDR4-2933 RDIMM ECC

Memory Slots
16 DDR4 DIMM slots, 12 channels capable (8 DIMM slots with 6 channels per processor)

Memory Protection
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.

Storage

Storage Support\(^3\)
Up to 6x 3.5" SATA HDD / 10x 2.5" SATA HDD / 8x 2.5" SAS HDD / 10x 2.5" SATA SSD / 4x 2.5" PCIe® SSD + 9x M.2 PCIe
SSD + 2x PCIe AIC SSD
• 3.5" HDD up to 6TB each
• 2.5" SATA HDD up to 500GB each
• 2.5" SAS HDD up to 600GB each
• 2.5" SATA SSD up to 2TB each
• M.2 SSD up to 2TB each
• 2.5" PCIe SSD up to 1.5TB each
• PCIe AIC SSD up to 480GB each

### Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5&quot; PCIe SSD</td>
<td>PCIe NVMe*</td>
<td>-</td>
<td>1.5TB</td>
</tr>
<tr>
<td>2.5&quot; SAS HDD</td>
<td>SAS 12Gb/s</td>
<td>10K</td>
<td>300GB / 600GB</td>
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<tr>
<td>2.5&quot; SATA SSD</td>
<td>SATA 6Gb/s</td>
<td>-</td>
<td>256GB / 512GB / 1TB / 2TB</td>
</tr>
<tr>
<td>2.5&quot; SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td>500GB / 500GB FIPS</td>
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<td>3.5&quot; SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td>1TB / 2TB / 4TB / 6TB</td>
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<td>M.2 PCIe SSD</td>
<td>PCIe NVMe</td>
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<td>256GB / 512GB / 1TB / 2TB</td>
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<tr>
<td>PCIe AIC SSD</td>
<td>PCIe NVMe</td>
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<td>480GB</td>
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### Storage Controllers

<table>
<thead>
<tr>
<th>Storage Controller</th>
<th>Type</th>
<th>Interface</th>
<th>RAID</th>
<th>Cache</th>
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</thead>
<tbody>
<tr>
<td>Onboard Intel RSTe SATA RAID</td>
<td>Standard</td>
<td>SATA 6.0Gb/s</td>
<td>0/1/10/5</td>
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<tr>
<td>9440-8i PCIe</td>
<td>Optional</td>
<td>SAS 12.0Gb/s, SATA 6.0Gb/s</td>
<td>0/1/10/5</td>
<td>None</td>
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<tr>
<td>9460-16i PCIe</td>
<td>Optional</td>
<td>SAS 12.0Gb/s, SATA 6.0Gb/s</td>
<td>0/1/10/5/6</td>
<td>4GB DDR4, SuperCap</td>
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<td>NVMe Basic</td>
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<td>PCIe NVMe</td>
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<td>PCIe NVMe</td>
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</table>

Notes:
1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

### Removable Storage

**Optical Support**
Up to three HH or two 9.0mm optical drives, DVD-ROM, DVD±RW, or Blu-ray

**Card Reader**
• SD card reader
• 15-in-1 card reader
• No card reader

### Multi-Media

**Audio Chip**
High Definition (HD) Audio, Realtek® ALC662 codec

**Speakers**
Single speaker

### Power Supply

**Power Supply**

<table>
<thead>
<tr>
<th>Power</th>
<th>Type</th>
<th>Efficiency</th>
<th>Key Features</th>
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</thead>
<tbody>
<tr>
<td>1400W</td>
<td>Fixed</td>
<td>92%</td>
<td>Autosensing, 80 PLUS Platinum qualified. Countries with input voltage under 115V, output power limited to 1125 watts</td>
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</table>
DESIGN

Mechanical

Form Factor
Tower (55L)

Dimensions (WxDxH)
200 x 620 x 446 mm (7.87 x 24.4 x 17.56 inches, with feet)

Weight
37 kg (81.6 lbs, maximum configuration)

Bays[1]
- 2x 3.5” disk bay (standard)
- 4x 3.5” disk bay (optional):
  - 2 bays come with 3rd disk or Storage Bay Upgrade Kit
  - 2 bays via flex bay

Flex Bays
3x flex bay, supports the following:
- 3x half-height optical drives
- 2x 5.25” 9.0mm optical drives
- 1x 5.25” 9.0mm optical drive + 1x 3.5”/2.5” SATA SSD/HDD
- 1x 3.5”/2.5” SATA SSD/HDD with Front Access Storage Enclosure
- 1x flex module for the following options:
  Tray 1: 9.0mm optical
  Tray 2: 15-in-1 USB 3.2 Gen 1 reader or 2x Thunderbolt™
  Port 1 and 2: Front USB 3.2 Gen 1 Type-C or eSATA

M.2 Slots
Up to 9x M.2 SSD:
- 2 via onboard slots
- 4 via Quad M.2 to PCIe adapter
- 3 via Single M.2 to PCIe adapter

Expansion Slots
- Three PCIe 3.0 x4
- Five PCIe 3.0 x16 (2nd CPU needed)

Expansion Slots Offering
Slot 1 (CPU1) PCIe 3.0 x16, full height, full length, 75W, double-width, by CPU1
Slot 2 (CPU1) PCIe 3.0 x4, full height, full length, 25W, open ended, by CPU1
Slot 3 (CPU1) PCIe 3.0 x16, full height, full length, 75W, double-width, by CPU1
Slot 4 (CPU1) PCIe 3.0 x4, full height, full length, 25W, open ended, by CPU1
Slot 5 (PCH) PCIe 3.0 x4, full height, half length, 25W, open ended, by PCH
Slot 6 (CPU2) PCIe 3.0 x16, full height, half length, 75W, by CPU2
Slot 7 (CPU2) PCIe 3.0 x16, full height, full length, 75W, double-width, by CPU2
Slot 8 (CPU2) PCIe 3.0 x16, full height, full length, 75W, by CPU2

Notes:
1. 4x 3.5” bay can also support up to 8x 2.5” SSD / HDD with 2 disks per bay. Additional 9440-8i or 9460-16i PCIe adapter and other parts are needed.

CONNECTIVITY

Network

Onboard Ethernet
Two gigabit Ethernet, Intel Ethernet Connection I219-LM and I210-AT, 2x RJ-45, supports Wake-on-LAN

Optional Ethernet
Two additional Ethernet adapters support, up to four additional 10 GbE ports
- Gigabit Ethernet, Intel I210-T1, 1x RJ-45, PCIe x1
- Gigabit Ethernet, Intel I350-T2, 2x RJ-45, PCIe x4
- Gigabit Ethernet, Intel I350-T4, 4x RJ-45, PCIe x4
- Gigabit Ethernet, Intel X540-T2, 2x RJ-45, PCIe x8
• Gigabit Ethernet, Intel X550-T2, 2x RJ-45, PCIe x4
• Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, PCIe x1
• Gigabit Ethernet, Broadcom BCM5719, 4x RJ-45, PCIe x4
• Gigabit Ethernet, Broadcom BCM5720, 2x RJ-45, PCIe x1
• 5 Gigabit Ethernet, Marvell AQtion AQN-108, 1x RJ-45, PCIe x1
• 10 Gigabit Ethernet, Intel X710-DA2, 2x SFP+, PCIe x8
• 10 Gigabit Ethernet, Marvell AQtion AQN-107, 1x RJ-45, PCIe x4

WLAN + Bluetooth
• Intel Dual-Band Wireless-AC 8265, 802.11ac Dual-Band 2x2 Wi-Fi® + Bluetooth 4.2
• No WLAN and Bluetooth

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

Ports

Front Ports
• 1x USB 3.1 Gen 1 (Always On and fast charge)
• 3x USB 3.1 Gen 1
• 1x headphone / microphone combo jack (3.5mm)

Optional Front Ports
• 2x Thunderbolt 3 (with flex module, USB-C® form, one supports video-out)
• 1x eSATA (with flex module)
• 1x USB-C 3.1 Gen 1 (with flex module)

Rear Ports
• 2x USB 2.0
• 4x USB 3.1 Gen 1
• 2x PS/2 ports (keyboard / mouse)
• 2x Ethernet (RJ-45)
• 1x line-in (3.5mm)
• 1x line-out (3.5mm)
• 1x microphone (3.5mm)

Optional Rear Ports
• 2x USB-C 3.1 Gen 2 (via 2-port USB-C expansion card)
• 1x Thunderbolt 3
• 1x 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 3/4: 40 Gbit/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
• (Optional) Access Panel Lock Kit with Common Key
• (Optional) Access Panel Lock Kit with Unique Key
• Kensington® Security Slot™; 3 x 7 mm

Chassis Intrusion Switch
Chassis intrusion switch

BIOS Security
MANAGEABILITY

System Management

Intel vPro with Intel AMT 11.0

Notes:
1. Intel vPro offers a superset of DASH's defined capabilities.
2. Intel vPro offers a superset of DASH's defined capabilities.

Diagnostic

- Photo-audio transfer with Lenovo PC Diagnostics for Android™ and iOS
- ThinkStation® Diagnostics for Windows
- Front 4-digit diagnostic
- Lenovo UEFI Bootable Diagnostics

SERVICE

Warranty

Base Warranty
- 1-year limited onsite service
- 3-year limited onsite service

Notes:

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: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 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 (on model 30BC003WUS)
- GREENGUARD®
- RoHS compliant

ISV Certifications

Please visit www.thinkworkstations.com/isv-certifications/
• Feature with ** means that only one offering listed under the feature is configured on selected models.

• Feature with *** means that one or more offerings listed under the feature could be configured on selected models.

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