OVERVIEW

1. Power button
2. Card reader
3. Headphone / microphone combo jack (3.5mm)
4. 4x USB 3.2 Gen 1
5. 3x Flex bay
6. Microphone (3.5mm)
7. Audio line-in (3.5mm)
8. Audio line-out (3.5mm)
9. Serial *
10. 2x PS/2 ports (keyboard / mouse)
11. 2x USB 2.0
12. 4x USB 3.2 Gen 1
13. 2x Ethernet (RJ-45)

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

### Processor Family

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

### Processor**

<table>
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<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
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<th>Processor Graphics</th>
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Xeon Gold 6154 | 18 | 36 | 3.0GHz | 3.7GHz | 24.75MB | DDR4-2666 | -
Xeon Gold 6226 | 12 | 24 | 2.7GHz | 3.7GHz | 19.25MB | DDR4-2933 | -
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Xeon Gold 6234 | 8 | 16 | 3.3GHz | 4.0GHz | 24.75MB | DDR4-2933 | -
Xeon Gold 6238T | 22 | 44 | 1.9GHz | 3.7GHz | 30.25MB | DDR4-2933 | -
Xeon Gold 6240R | 24 | 48 | 2.4GHz | 4.0GHz | 35.75MB | DDR4-2933 | -
Xeon Gold 6242 | 16 | 32 | 2.8GHz | 3.9GHz | 22MB | DDR4-2933 | -
Xeon Gold 6244 | 8 | 16 | 3.6GHz | 4.4GHz | 24.75MB | DDR4-2933 | -
Xeon Gold 6246 | 12 | 24 | 3.3GHz | 4.2GHz | 24.75MB | DDR4-2933 | -
Xeon Gold 6248 | 20 | 40 | 2.5GHz | 3.9GHz | 27.5MB | DDR4-2933 | -
Xeon Gold 6254 | 18 | 36 | 3.1GHz | 4.0GHz | 24.75MB | DDR4-2933 | -
Xeon Gold 6258R | 28 | 56 | 2.7GHz | 4.0GHz | 38.5MB | DDR4-2933 | -
Xeon Platinum 8160T | 24 | 48 | 2.1GHz | 3.7GHz | 33MB | DDR4-2666 | -
Xeon Platinum 8180 | 28 | 56 | 2.5GHz | 3.8GHz | 38.5MB | DDR4-2666 | -
Xeon Platinum 8280 | 28 | 56 | 2.7GHz | 4.0GHz | 38.5MB | DDR4-2933 | -
Xeon W-3223 | 8 | 16 | 3.5GHz | 4.0GHz | 16.5MB | DDR4-2666 | -
Xeon W-3225 | 8 | 16 | 3.7GHz | 4.3GHz | 16.5MB | DDR4-2666 | -
Xeon W-3235 | 12 | 24 | 3.3GHz | 4.4GHz | 19.25MB | DDR4-2933 | -
Xeon W-3245 | 16 | 32 | 3.2GHz | 4.4GHz | 22MB | DDR4-2933 | -
Xeon W-3265 | 24 | 48 | 2.7GHz | 4.4GHz | 33MB | DDR4-2933 | -
Xeon W-3275 | 28 | 56 | 2.5GHz | 4.4GHz | 38.5MB | DDR4-2933 | -

Processor Sockets
2x FCLGA3647

Operating System

Operating System**
- Windows® 10 Pro 64 for Workstations
- Ubuntu Linux LTS
- 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>
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<td>3x miniDP 1.4</td>
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</table>

ThinkStation P920 - October 29 2021
### 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**

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**

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**

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<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
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<td>PCIe NVMe</td>
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<th>Display Outputs</th>
<th>Features</th>
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2.5" SAS HDD | SAS 12Gb/s | 10K | 300GB / 600GB  
2.5" SATA HDD | SATA 6Gb/s | 7.2K | 500GB / 500GB FIPS  
2.5" SATA SSD | SATA 6Gb/s | - | 256GB / 512GB / 1TB / 2TB  
3.5" SATA HDD | SATA 6Gb/s | 7.2K | 1TB / 2TB / 4TB / 6TB  
M.2 PCIe SSD | PCIe NVMe | - | 256GB / 512GB / 1TB / 2TB  
PCIe AIC SSD | PCIe NVMe | - | 480GB  

**Storage Controllers**

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<th>Type</th>
<th>Interface</th>
<th>RAID</th>
<th>Cache</th>
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| 9440-8i PCIe       | Optional | SAS 12.0Gb/s, SATA 6.0Gb/s | 0/1/10/5 | None  
| 9460-16i PCIe      | Optional | SAS 12.0Gb/s, SATA 6.0Gb/s | 0/1/10/5/6 | 4GB DDR4, SuperCap  
| NVMe Basic         | Optional | PCIe NVMe | 0/1/10 | None  
| NVMe Premium       | Optional | PCIe NVMe | 0/1/10/5 | None  
| NVMe for Intel SSD | Optional | PCIe NVMe | 0/1/10/5 | None  
| Onboard Intel RSTe SATA RAID | Standard | SATA 6.0Gb/s | 0/1/10/5 | None  

**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

**Power Supply**

**Power Supply**

<table>
<thead>
<tr>
<th>Power</th>
<th>Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</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>
</tr>
</tbody>
</table>

**DESIGN**

**Mechanical**

**Form Factor**
Tower (55L)

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>200 x 620 x 446 mm (7.87 x 24.4 x 17.56 inches, with feet)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>37 kg (81.6 lbs, maximum configuration)</td>
</tr>
</tbody>
</table>

**Bays**

- 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
- 3x M.2 SSD with 3x Front Removable Drive Enclosures

**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 RJ45, supports Wake-on-LAN

**Optional Ethernet**
Additional Ethernet options via PCIe adapter

**WLAN + Bluetooth®**

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

**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**

- 1x eSATA (with flex module)
- 2x Thunderbolt (with flex module, USB-C form, one supports video-out)
- 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
• 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: 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
• (Optional) Access Panel Lock Kit with Common Key
• (Optional) Access Panel Lock Kit with Unique Key
• Kensington® Security Slot

Chassis Intrusion Switch
Chassis intrusion switch

BIOS Security
• Administrator password
• Power-on password

MANAGEABILITY

System Management

System Management
Intel vPro with Intel AMT 11.0

Diagnostic

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 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 (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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