

ThinkStation P720 30BA00FFUS

Product

ThinkStation P720

Region

NA

Country/Region

USA

Machine Type

30BA

TopSeller

TopSeller

Processor

2x Intel Xeon Silver 4210R 10C/20T/2.4GHz/13.75MB/100W/DDR4-2400

Discrete Graphics

None

Chipset

Intel C621

Memory

2x 8GB RDIMM DDR4-2933 ECC

HDD Controller

Onboard Intel RSTe SATA

M.2 SSD RAID Controller

RAID 0/1

Internal Disk Drive

None

M.2 SSD Drive

1x 512GB SSD M.2 PCIe NVMe Opal

PCIe SSD Adapter

None

Optical

1x HH DVD±RW

Media Reader

SD Reader

Onboard Ethernet

2x GbE RJ-45

Additional Ethernet

None

WLAN + Bluetooth

None

Optional Front Ports

None

Optional Rear Ports

None

Optional Internal Ports

None

Chassis Intrusion Switch

Chassis Intrusion Switch

Cover Lock

Lock Kit with Common Key

Keyboard

USB Traditional Keyboard, Black, English

Mouse

USB Calliope Mouse

Power Supply

1000W Platinum Fixed

Diagnostic

None

System Management

Intel vPro with AMT 11

Operating System

Windows 10 Pro 64 for Workstations, English

Bundled Software

None

Base Warranty

3-year, Onsite

Bundled Service

None

EAN / UPC / JAN

195235771532

End of Support

2025-10-26

Announce Date

2020-07-14

Recommended Services**Best**

4Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection) (5PS0N73191)

Better

4Y Lenovo Support (Premier Support + Keep Your Drive) (5PS0N73243)

Good

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26639)

Notes:**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>

[WWW.LENOVO.COM](https://www.lenovo.com)

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ThinkStation P720 Platform Specifications



| | |
|-------------------|---------------------------------------------------------------------------------------------------------|
| Form factor | 36L Tower |
| Dimensions | 175mm/6.89" W x 485mm/19.1" D x 446mm/17.6" H (with feet) |
| Weight | Maximum configuration: 56.7 lb (25.7kg) |
| Processor Sockets | 2x FCLGA3647 |
| Processor Support | Up to two 165 W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum |

| Processor Offering | Processor | # of Cores | # of Threads | Base Frequency | Cache | TDP | Memory Types |
|---------------------|----------------|------------|--------------|----------------|---------|-----------|--------------|
| | Xeon Gold 6246 | 12 | 24 | 3.3GHz | 24.75MB | 165W | DDR4-2933 |
| Xeon Gold 6244 | 8 | 16 | 3.6GHz | 25MB | 150W | DDR4-2933 | |
| Xeon Gold 6242 | 16 | 32 | 2.8GHz | 22MB | 150W | DDR4-2933 | |
| Xeon Gold 6238T | 22 | 44 | 1.9GHz | 30MB | 125W | DDR4-2933 | |
| Xeon Gold 6234 | 8 | 16 | 3.3GHz | 25MB | 130W | DDR4-2933 | |
| Xeon Gold 6230 | 20 | 40 | 2.1GHz | 28MB | 125W | DDR4-2933 | |
| Xeon Gold 6226 | 12 | 24 | 2.7GHz | 19MB | 125W | DDR4-2933 | |
| Xeon Gold 5222 | 4 | 8 | 3.8GHz | 16.5MB | 105W | DDR4-2933 | |
| Xeon Gold 5218 | 16 | 32 | 2.3GHz | 22MB | 125W | DDR4-2666 | |
| Xeon Gold 5217 | 8 | 16 | 3.0GHz | 11MB | 115W | DDR4-2666 | |
| Xeon Gold 5215 | 10 | 20 | 2.5GHz | 13.75MB | 85W | DDR4-2666 | |
| Xeon Silver 4216 | 16 | 32 | 2.1GHz | 22MB | 100W | DDR4-2400 | |
| Xeon Silver 4215 | 8 | 16 | 2.5GHz | 11MB | 85W | DDR4-2400 | |
| Xeon Silver 4214 | 12 | 24 | 2.2GHz | 17MB | 85W | DDR4-2400 | |
| Xeon Silver 4210 | 10 | 20 | 2.2GHz | 14MB | 85W | DDR4-2400 | |
| Xeon Silver 4209T | 8 | 16 | 2.2GHz | 11MB | 70W | DDR4-2400 | |
| Xeon Silver 4208 | 8 | 16 | 2.1GHz | 11MB | 85W | DDR4-2400 | |
| Xeon Bronze 3204 | 6 | 6 | 1.9GHz | 8.25MB | 85W | DDR4-2133 | |
| Xeon Platinum 8160T | 24 | 48 | 2.1GHz | 33MB | 150W | DDR4-2666 | |
| Xeon Gold 6146 | 12 | 24 | 3.2GHz | 24.75MB | 165W | DDR4-2666 | |
| Xeon Gold 6142 | 16 | 32 | 2.6GHz | 22MB | 150W | DDR4-2666 | |
| Xeon Gold 6136 | 12 | 24 | 3.0GHz | 24.75MB | 150W | DDR4-2666 | |
| Xeon Gold 6134 | 8 | 16 | 3.2GHz | 24.75MB | 130W | DDR4-2666 | |
| Xeon Gold 6128 | 6 | 12 | 3.4GHz | 19.25MB | 115W | DDR4-2666 | |
| Xeon Gold 5122 | 4 | 8 | 3.6GHz | 16.5MB | 105W | DDR4-2666 | |
| Xeon Gold 5120T | 14 | 28 | 2.2GHz | 19.25MB | 105W | DDR4-2400 | |
| Xeon Gold 5118 | 12 | 24 | 2.3GHz | 16.5MB | 105W | DDR4-2400 | |
| Xeon Gold 5115 | 10 | 20 | 2.4GHz | 13.75MB | 85W | DDR4-2400 | |
| Xeon Silver 4116 | 12 | 24 | 2.1GHz | 16.5MB | 85W | DDR4-2400 | |
| Xeon Silver 4114T | 10 | 20 | 2.2GHz | 13.75MB | 85W | DDR4-2400 | |
| Xeon Silver 4114 | 10 | 20 | 2.2GHz | 13.75MB | 85W | DDR4-2400 | |
| Xeon Silver 4112 | 4 | 8 | 2.6GHz | 8.25MB | 85W | DDR4-2400 | |
| Xeon Silver 4110 | 8 | 16 | 2.1GHz | 11MB | 85W | DDR4-2400 | |
| Xeon Silver 4109T | 8 | 16 | 2.0GHz | 11MB | 70W | DDR4-2400 | |
| Xeon Silver 4108 | 8 | 16 | 1.8GHz | 11MB | 85W | DDR4-2400 | |

| | |
|-------------------|--------------------------------------------------------------------------------|
| Chipset | Intel C621 Chipset |
| Memory Sockets | 12 DIMM sockets with 12 channels. 6 DIMM sockets with 6 channels per processor |
| Memory Types | DDR4-2666 RDIMM or DDR4-2933 RDIMM |
| Memory Capacity | 768GB (DDR4-2933 RDIMM) or 384GB (DDR4-2666 RDIMM) |
| Memory Protection | ECC |

| | | |
|-----------------|---------------|-----------------------------------------------------------|
| Expansion slots | Slot 1 (CPU2) | PCIe 3.0 x16, full height, full length, 75W |
| | Slot 2 (CPU1) | PCIe 3.0 x16, full height, full length, 75W, double-width |
| | Slot 3 (CPU1) | PCIe 3.0 x8, full height, full length, 25W, open ended |
| | Slot 4 (CPU1) | PCIe 3.0 x16, full height, full length, 75W, double-width |
| | Slot 5 | PCI, full height, full length, 25W |
| | Slot 6 (PCH) | PCIe 3.0 x4, full height, half length, 25W, open ended |

| Discrete Graphics Offering | Graphics | Memory | Power | Connector | SLI / NVlink | Max Qty |
|----------------------------|-------------|----------|---------------|-----------|--------------|---------|
| | NVS 810 | 4GB DDR3 | 68W | 8xmini DP | | 2 |
| Quadro P400 | 2GB GDDR5 | 30W | 3xminiDP | | 3 | |
| Quadro P600 | 2GB GDDR5 | 45W | 4xminiDP | | 3 | |
| Quadro P620 | 2GB GDDR5 | 40W | 4xminiDP | | 3 | |
| Quadro P1000 | 4GB GDDR5 | 50W | 4xminiDP | | 3 | |
| Quadro P2000 | 5GB GDDR5 | 75W | 4xDP | | 3 | |
| Quadro P4000 | 8GB GDDR5 | 120W | 4xDP | | 2 | |
| Quadro P5000 | 16GB GDDR5X | 180W | DVI-D DL+4xDP | SLI | 2 | |
| Quadro P6000 | 24GB GDDR5X | 250W | DVI-D DL+4xDP | SLI | 2 | |

| Discrete Graphics Offering | Graphics | Memory | Power | Connector | SLI / NVlink | Max Qty |
|----------------------------|-----------------|-----------|---------------------|---------------------|--------------|---------|
| | Quadro RTX 4000 | 8GB GDDR6 | 160W | 3xDP, 1xVirtualLink | | 2 |
| Quadro RTX 5000 | 16GB GDDR6 | 265W | 4xDP, 1xVirtualLink | | 2 | |
| Quadro RTX 6000 | 24GB GDDR6 | 295W | 4xDP, 1xVirtualLink | | 2 | |
| Quadro RTX 8000 | 48GB GDDR6 | 295W | 4xDP, 1xVirtualLink | | 2 | |
| Quadro GP100 | 16GB HBM2 | 235W | 1xDVI-D DL, 4xDP | | 2 | |
| Quadro GV100 | 32GB HBM2 | 250W | 4xDP | | 2 | |

| Storage Controller | Storage Controller | Type | Interface | RAID | Cache |
|--------------------|--------------------|------------------------|------------|----------|--------------------|
| | Onboard Intel RSTe | Std | SATA 6Gb/s | 0/1/10/5 | |
| 9440-8i PCIe | Opt | SAS 12Gb/s, SATA 6Gb/s | 0/1/10/5 | | |
| 9460-16i PCIe | Opt | SAS 12Gb/s, SATA 6Gb/s | 0/1/10/5/6 | | 4GB DDR4, SuperCap |
| NVMe Basic | Opt | PCIe NVMe | 0/1/10 | | |
| NVMe Premium | Opt | PCIe NVMe | 0/1/10/5 | | |
| NVMe for Intel SSD | Opt | PCIe NVMe | 0/1/10/5 | | |

| Storage Support | Disk Type | Interface | RPM | Offering | Max Qty (Blind connection + 9460 used) |
|-----------------|---------------|------------|---------------------|-----------------|---------------------------------------------------|
| | 3.5" SATA HDD | SATA 6Gb/s | 7.2K | 1TB/2TB/4TB/6TB | 6 (Also supports additional 4x 2.5" SATA SSD/HDD) |
| 2.5" SATA HDD | SATA 6Gb/s | 7.2K | 500GB/500GB FIPS | 10 | |
| 2.5" SAS HDD | SAS 12Gb/s | 10K | 300GB/600GB | 8 | |
| 2.5" SATA SSD | SATA 6Gb/s | | 256GB/512GB/1TB/2TB | 10 | |
| 2.5" PCIe SSD | PCIe NVMe | | 1.5TB | 2 | |
| M.2 PCIe SSD | PCIe NVMe | | 256GB/512GB/1TB/2TB | 9 | |
| PCIe AIC SSD | PCIe NVMe | | 480GB | 2 | |

| Storage Bays | Bay Type | Maximum Drives Qty |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | M.2 slot | 9x M.2 SSD (2 onboard, 7 via PCIe to M.2 adapter) |
| Flex Bay | 2 flex bays. Supports the following: <ul style="list-style-type: none"> • 2x 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: <ul style="list-style-type: none"> Tray 1: 9.0mm optical Tray 2: 15-in-1 USB 3.1 Gen 1 reader or 2x Thunderbolt Port 1 and 2: Front USB 3.1 Gen 1 Type-C or eSATA • 2x M.2 SSD with 2x Front Removable Drive Enclosures | |
| Disk bay | 4 disk bays (2 bays standard, 2 bays optional). Supports one of the following configurations: <ul style="list-style-type: none"> • 4x 3.5" SATA HDD • 4x 3.5" SATA HDD + 4x 2.5" SATA SSD/HDD (Blind connection needed) • 8x 2.5" SATA SSD/HDD or 8x 2.5" SAS HDD (Blind connection needed) • 2x 2.5" PCIe SSD + 2x 3.5"/2.5" disks (Blind connection needed) | |

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply | Supports one of the following: <ul style="list-style-type: none"> • One fixed 690W, autosensing, 92%, 80 PLUS Platinum qualified • One fixed 900W, autosensing, 92%, 80 PLUS Platinum qualified • One fixed 1000W, autosensing, 92%, 80 PLUS Platinum qualified |
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ThinkStation P720 Platform Specifications



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| Media reader | USB 2.0 9-in-1 card reader on most models. Optional UHS-II 15-in-1 USB 3.1 Gen 1 reader on flex module | |
| Network interfaces | Integrated two-port gigabit ethernet (Intel i219LM and i210AT), supports Wake-on-LAN on both two ports. Optional PCIe ethernet are available | |
| WLAN + Bluetooth | Optional Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps | |
| Security features | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant, switch to 1.2 via UEFI setting. Chassis intrusion switch. Optional access panel lock, Kensington lock | |
| Intel vPro | Intel vPro technology supported. vPro requires Wireless-AC 8265 if Wi-Fi is needed | |
| Intel AMT | Intel Active Management Technology 11 | |
| Diagnostic | Front panel warning LED. ThinkStation Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS. Optional front 4-digit diagnostic display on flex module | |
| Base warranty | 1 or 3-year limited onsite service with 9x5/NBD | |
| HD Audio | Realtek ALC662 codec | |
| Front ports | 4x USB 3.1 Gen 1 (includes one 11W charging), 1x combo audio/microphone jack (3.5mm) | |
| Rear ports | 2x USB 2.0, 4x USB 3.1 Gen 1, 2x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2 | |
| Optional ports | Supports the following optional ports: Front: <ul style="list-style-type: none"> • 2x Thunderbolt ports (USB Type-C) on flex module, one of two ports supports video-out • 1x eSATA on flex module • 1x USB Type-C on flex module, USB 3.1 Gen 1 Rear: <ul style="list-style-type: none"> • 1x COM port • 2x USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W Internal: <ul style="list-style-type: none"> • 1x internal USB 3.1 Gen 1 port | |
| Environmental specification | Temperature - operating | 50 °F to 95 °F (10 °C to 35 °C) |
| | Temperature - storage (no package) | 14 °F to 140 °F (-10 °C to 60 °C) |
| | Temperature - storage (with package) | -40 °F to 140 °F (-40 °C to 60 °C) |
| | Altitude - operating | (Unpressurized): 0-10000ft (0-3048m) |
| | Humidity - operating | 10%~80%, non-condensing |
| | Humidity - storage (with package) | 10%~90%, non-condensing |
| Environmental Certifications | RoHS-compliant. GREENGUARD. EPEAT Silver rating. ENERGY STAR 8.0 qualified on selected models | |
| ISV certifications | Please visit www.thinkworkstations.com/isv-certifications/ | |

Note:

1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. To support the maximum expandability, 900W power supply may be needed.
3. Any questions or advice on ThinkStation PSREF, please contact [ThinkStation PSREF developer](#)

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