ThinkStation P720 30BA00DNUS

Product
ThinkStation P720

Region
NA

Country/Region
USA

Machine Type
30BA

TopSeller
TopSeller

Processor
1x Intel Xeon Silver 4208 8C/16T/2.1GHz/11MB/85W/DDR4-2400

Discrete Graphics
None

Monitor Cable
None

Chipset
Intel C621

Memory
1x 16GB 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

Ethernet
2x GbE RJ-45

WLAN + Bluetooth
None

Optional Front Ports
None

Optional Rear Ports
None

Optional Internal Ports
None

Chassis Intrusion Switch
Chassis Intrusion Switch

Cover Lock
None

Keyboard
USB Traditional Keyboard, English

Mouse
USB Calliope Mouse

Power Supply
900W 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
194552061593

End of Support
2025-09-06

Announce Date
2019-08-06

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**

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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: 52.25 lb (23.7kg)
Processor Sockets	2x FCLGA3647
Processor Support	Up to two 150 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 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 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
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		1

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		1
Quadro RTX 6000	24GB GDDR6	295W	4xDP, 1xVirtualLink		1
Quadro RTX 8000	48GB GDDR6	295W	4xDP, 1xVirtualLink		1
Quadro GP100	16GB HBM2	235W	1xDVI-D DL, 4xDP		1
Quadro GV100	32GB HBM2	250W	4xDP		1

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: • 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: Tray 1: 9.0mm optical Tray 2: 15-in-1 USB 3.0 reader or 2x Thunderbolt Port 1 and 2: Front USB 3.0 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: • 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)

Max Storage	Supports up to 9x M.2 SSD + 6x 3.5" HDD/10x 2.5" SSD/10x 2.5" HDD + 2x PCIe AIC SSD. All HDD: 36TB using 6x 3.5" HDD All SSD: 38.96TB using 10x 2.5" SATA SSD, 9x M.2 SSD, and 2x PCIe AIC SSD

ThinkStation P720 Platform Specifications

Power supply	Supports one of the following: • One fixed 690W, autosensing, 92%, 80 PLUS Platinum qualified • One fixed 900W, autosensing, 92%, 80 PLUS Platinum qualified
Media reader	SD USB 2.0 card reader on most models. Optional UHS-II 15-in-1 USB 3.0 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, and pad 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. ThinkSta-tion Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diag-nostics 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 3.0 (includes one 11W charging), 1x combo audio/microphone jack (3.5mm)
Rear ports	2x USB 2.0, 4x USB 3.0, 2x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2
Optional ports	Supports the following optional ports: Front: • 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: • 1x COM port • 2x USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W Internal: • 1x internal USB 3.0 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 6.1 qualified on model 30BA0007US and 30BA0008US
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

ThinkStation P720











