ThinkStation P520c 30BX006FIX

Product
ThinkStation P520c

Region
WE

Country/Region
Italy

Machine Type
30BX

TopSeller
TopSeller

Processor
Intel Xeon W-2123 4C/8T/3.6GHz/8.25MB/120W/DDR4-2666

Discrete Graphics
NVIDIA Quadro RTX 4000 8GB

Chipset
Intel C422

Memory
2x 16GB RDIMM DDR4-2666 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
None

Ethernet
1x GbE RJ-45

WLAN + Bluetooth
None

Optional Front Ports
None

Optional Rear Ports
None

Optional Internal Ports
None

Chassis Intrusion Switch
None

Cover Lock
None

Keyboard
USB Traditional Keyboard, Black, Italian

Mouse
USB Calliope Mouse

Power Supply
500W Platinum Fixed

Diagnostic
None

System Management
Intel vPro with AMT 11

Operating System
Windows 10 Pro 64 for Workstations, WE (EN/FR/DE/NL/IT)

Bundled Software
None

Base Warranty
3-year, Onsite

Bundled Service
None

EAN / UPC / JAN
0194632072310

End of Support
2025-11-22

Announce Date
2019-10-22

Recommended Services

Best
3Y Premier Support Upgrade from 3Y Onsite (5WS0U26649)

Better
4Y Premier Support Upgrade from 3Y Onsite (5WS0T36122)

Good
5Y Premier Support Upgrade from 3Y Onsite (5WS0T36128)

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ThinkStation P520c Platform Specifications

Form factor	25L Tower
Dimensions	175mm/6.89" W x 426mm/16.77" D x 376mm/14.8" H (with feet)
Weight	Maximum configuration: 31.97 lb (14.5kg)

Processor Support

Processor	# of Cores	# of Threads	Base Frequency	Cache	TDP	Memory Types
Xeon W-2245	8	16	3.9GHz	16.5MB	155W	DDR4-2933
Xeon W-2235	6	12	3.8GHz	8.25MB	130W	DDR4-2933
Xeon W-2225	4	8	4.1GHz	8.25MB	105W	DDR4-2933
Xeon W-2223	4	8	3.6GHz	8.25MB	120W	DDR4-2666
Xeon W-2195	18	36	2.3GHz	24.75MB	140W	DDR4-2666
Xeon W-2175	14	28	2.5GHz	19MB	140W	DDR4-2666
Xeon W-2155	10	20	3.3GHz	13.75MB	140W	DDR4-2666
Xeon W-2145	8	16	3.7GHz	11MB	140W	DDR4-2666
Xeon W-2135	6	12	3.7GHz	8.25MB	140W	DDR4-2666
Xeon W-2133	6	12	3.6GHz	8.25MB	140W	DDR4-2666
Xeon W-2125	4	8	4.0GHz	8.25MB	120W	DDR4-2666
Xeon W-2123	4	8	3.6GHz	8.25MB	120W	DDR4-2666
Xeon W-2104	4	4	3.2GHz	8.25MB	120W	DDR4-2400
Xeon W-2102	4	4	2.9GHz	8.25MB	120W	DDR4-2400

Processor Sockets	1x FCLGA2066
Chipset	Intel C422 Chipset
Memory Sockets	4 DIMM sockets with 4 channels
Memory Types	DDR4-2666 RDIMM or DDR4-2933 RDIMM
Memory Capacity	256GB with 4 x 64GB RDIMMs
Memory Protection	ECC
Expansion slots	Slot 1 (CPU) PCIe 3.0 x16, full height, full length, 75W, Slot 2 (CPU) PCIe 3.0 x8, full height, full length, 25W, open ended Slot 3 (CPU) PCIe 3.0 x16, full height, full length, 75W Slot 4 (PCH) PCIe 3.0 x4, full height, half length, 25W, open ended

Discrete Graphics Offering

Graphics	Memory	Power	Connector	SLI / NV-link	Max Qty
NVS 810	4GB DDR3	68W	8xmini DP		1
Quadro P400	2GB GDDR5	30W	3xminiDP		2
Quadro P600	2GB GDDR5	45W	4xminiDP		2
Quadro P620	2GB GDDR5	40W	4x miniDP		2
Quadro P1000	4GB GDDR5	50W	4xminiDP		2
Quadro P2000	5GB GDDR5	75W	4xDP		2
Quadro P4000	8GB GDDR5	120W	4xDP		2
Quadro P5000	16GB GDDR5X	180W	DVI-D DL+4xDP		1
Quadro RTX 4000	8GB GDDR6	160W	3xDP, 1xVirtualLink		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	-
NVMe Basic	Opt	PCIe NVMe	0/1/10	-
NVMe for Intel SSD	Opt	PCIe NVMe	0/1/10/5	-

Storage Support

Disk Type	Interface	RPM	Offering	Max Qty
3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB/6TB	4
2.5" SATA HDD	SATA 6Gb/s	7.2K	500GB/500GB FIPS	4
2.5" SATA SSD	SATA 6Gb/s		256GB/512GB/1TB/2TB	4
M.2 PCIe SSD	PCIe NVMe		256GB/512GB/1TB/2TB	5

Max Storage	Supports up to 5x M.2 SSD + 4x 3.5" HDD/4x 2.5" SSD/4x 2.5" HDD All HDD: 24TB using 4x 3.5" HDD All SSD: 18TB using 4x 2.5" SATA SSD and 5x M.2 SSD
Power supply	One fixed 500W, autosensing, 92%, 80 PLUS Platinum qualified
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 one gigabit ethernet (Intel i219LM), supports Wake-on-LAN. Optional PCIe ethernet or wireless adapters 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. 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	ThinkStation Diagnostics for Windows. 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	2x USB 3.1 Gen 1, microphone (3.5mm), headphone (3.5mm)
Rear ports	2x USB 2.0, 4x USB 3.1 Gen 1, 1x 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 3.1 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): -50ft-10000ft (-15.2m-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 30BX0008US and 30BX0009US
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/

Storage Bays

Bay Type	Maximum Drives Qty
M.2 slot	5x M.2 SSD (2 onboard, 3 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 + 2x 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 3.1 Gen 1 reader, 2x Thunderbolt, or 4-digit diagnostic display 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	Up to 2x 3.5"/2.5" disks with 2 disk bays

Note:
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact ThinkStation PSREF developer

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