

ThinkStation P520c 30BX009EGE

Product

ThinkStation P520c

Region

WE

Country/Region

Germany

Machine Type

30BX

TopSeller

TopSeller

Processor

Intel Xeon W-2225 4C/8T/4.1GHz/8.25MB/105W/DDR4-2933

Discrete Graphics

NVIDIA Quadro RTX 4000 8GB

Chipset

Intel C422

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

1x GbE RJ-45

Additional Ethernet

None

WLAN + Bluetooth

None

Optional Front Ports

None

Optional Rear Ports

1x Serial

Optional Internal Ports

None

Chassis Intrusion Switch

Chassis Intrusion Switch

Cover Lock

None

Keyboard

USB Traditional Keyboard, Black, German

Mouse

USB Calliope Mouse

Power Supply

625W

Diagnostic

None

System Management

Intel vPro with AMT 11

Operating System

Windows 10 Pro 64 for Workstations, German

Bundled Software

None

Base Warranty

3-year, Onsite

Bundled Service

None

EAN / UPC / JAN

0195042803303

End of Support

2025-12-21

Announce Date

2020-06-16

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

Product Specifications Reference (PSREF)

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 / NVLink	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	
	Quadro RTX 5000	16GB GDDR6	265W	4xDP, 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		

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
Power supply	One of the following: - One fixed 500W, autosensing, 92%, 80 PLUS Platinum qualified - One fixed 625W, 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 pack-age)	14 °F to 140 °F (-10 °C to 60 °C)
	Temperature - storage (with pack-age)	-40 °F to 140 °F (-40 °C to 60 °C)
	Altitude - operating	(Unpressurized): -50ft-10000ft (-15.2m-3048m)
	Humidity - operating	10%~80%, non-condensing
Environmental Certifications	Humidity - storage (with package)	10%~90%, non-condensing
	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/	

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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