

ThinkStation P520c 30BX0090GE

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

Ethernet

1x GbE RJ-45

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

500W Platinum Fixed

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

0194778372756

End of Support

2026-03-04

Announce Date

2020-02-04

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 / 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		
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/			
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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