

# ThinkStation P520c 30BX004LSP

**Product**

ThinkStation P520c

**Region**

WE

**Country/Region**

Spain

**Machine Type**

30BX

**TopSeller**

TopSeller

**Processor**

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

**Memory**

1x 16GB RDIMM DDR4-2666 ECC

**Discrete Graphics Card**

None

**Monitor Cable**

None

**Storage Controller**

Onboard Intel SATA RSTe Controller

**M.2 SSD RAID Controller**

RAID 0/1/10 Upgrade

**Internal Disk**

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

**HD Audio**

Onboard Realtek ALC662

**WLAN + Bluetooth**

None

**Available Networking Port**

1x GbE RJ-45

**Chassis Intrusion Switch**

Chassis Intrusion Switch

**Cover Lock**

None

**Optional 1394 Port**

None

**Optional Parallel Port**

None

**Optional Thunderbolt Port**

None

**Optional Serial Port**

1x Serial

**Optional USB Port**

None

**Optional eSATA Port**

None

**Keyboard**

USB Traditional Keyboard

**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

**Bundled Software**

None

**Base Warranty**

3-year, Onsite

**Upsell Service Bundles**

None

**Global**

No

**End of Support**

2024-05-03

**Announce Date**

2018-04-03

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**Recommended Service****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 Family	Up to one 140W Intel Xeon W family processor: <ul style="list-style-type: none"> <li>Up to 18 cores at 2.3 GHz</li> <li>Up to 4.0 GHz with 4 cores</li> <li>Up to 24.75 MB cache</li> <li>Up to DDR4-2666 memory speed</li> </ul>					
Processor Sockets	1x FCLGA2066					
Chipset	Intel C422 Chipset					
Memory Sockets	4 DIMM sockets with 4 channels					
Memory Types	DDR4-2666 RDIMM					
Memory Capacity	128GB with 4 x 32GB 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	
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: <ul style="list-style-type: none"> <li>2x half-height optical drives</li> <li>2x 5.25" 9.0mm optical drives</li> <li>1x 5.25" 9.0mm optical drive + 2x 3.5"/2.5" SATA SSD/HDD</li> <li>1x 3.5"/2.5" SATA SSD/HDD with Front Access Storage Enclosure</li> <li>1x flex module for the following options:                      Tray 1: 9.0mm optical                      Tray 2: 15-in-1 USB 3.0 reader, 2x Thunderbolt, or 4-digit diagnostic display                      Port 1 and 2: Front USB 3.0 Type-C or eSATA</li> <li>2x M.2 SSD with 2x Front Removable Drive Enclosures</li> </ul>				
Disk bay	Up to 2x 3.5"/2.5" disks with 2 disk bays					

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	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 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 3.0, microphone (3.5mm), headphone (3.5mm)	
Rear ports	2x USB 2.0, 4x USB 3.0, 1x 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"> <li>2x Thunderbolt ports (USB Type-C) on flex module, one of two ports supports video-out</li> <li>1x eSATA on flex module</li> <li>1x USB Type-C on flex module, USB 3.1 gen 1</li> </ul> Rear: <ul style="list-style-type: none"> <li>1x COM port</li> <li>2x USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W</li> </ul> Internal: <ul style="list-style-type: none"> <li>1x internal USB 3.0 port</li> </ul>	
	Environmental specification	Temperature - operating
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 <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>	

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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