

ThinkStation P520c 30BX003V--

Region
WE

Machine Type
30BX

TopSeller
TopSeller

Processor
Xeon W-2133 6C/3.6GHz/8.25MB/140W/DDR4-2666

Graphics
Open

Memory
1x 16GB RDIMM DDR4-2666 ECC

Storage Controller
Integrated Intel SATA

M.2 RAID Upgrade
RAID 0/1/10

Disks
None

M.2 Drives
1x 256GB SSD M.2 PCIe Opal, Onboard

Optical
1x HH DVD±RW

Media Reader
9-in-1

Power Supply
Fixed 500W Platinum

Optional Ports
1x Serial

Front Diagnostic LED
None

Keyboard / Mouse
USB / USB Optical

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

Global
No

End of Support
Feb 25, 2024

Ann Date (mm/yy)
01/18

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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<http://psref.lenovo.com>

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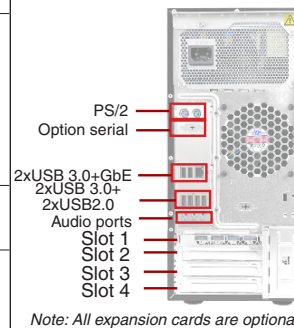


ThinkStation P520c Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification																																																																		
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	Up to one 140W Intel Xeon W family processor. Up to 18 cores at 2.3GHz, up to 4.0GHz with 4 cores. Memory speed up to DDR4-2666																																																																		
Chipset	Intel C422 Chipset																																																																		
Memory	4 DIMM sockets with 4 channels. RDIMMs. DDR4-2666																																																																		
Memory capacity	Up to 128GB with 4 x 32GB RDIMMs																																																																		
Memory protection	ECC																																																																		
Graphics	Two PCIe 3.0 x16 slots (see Expansion slots section). Up to one NVIDIA Quadro P5000 plus one Quadro P2000, or up to two Quadro P4000. Other graphics adapters under 75W up to 2. Supports the following graphics adapters:																																																																		
	<table><tr><th>Adapter</th><th>Cores</th><th>Memory</th><th>Power</th><th>Connector</th><th>SLI</th></tr><tr><td>NVS 310</td><td>48</td><td>1GB</td><td>19.5W</td><td>2xDP</td><td></td></tr><tr><td>NVS 315</td><td>48</td><td>1GB</td><td>19.3W</td><td>2xDVI-I SL/2xDP</td><td></td></tr><tr><td>NVS 510</td><td>192</td><td>2GB</td><td>33.4W</td><td>4xmini DP</td><td></td></tr><tr><td>NVS 810</td><td>1024</td><td>4GB</td><td>68W</td><td>8xmini DP</td><td></td></tr><tr><td>Quadro P400</td><td>256</td><td>2GB</td><td>30W</td><td>3xminiDP</td><td></td></tr><tr><td>Quadro P600</td><td>384</td><td>2GB</td><td>45W</td><td>4xminiDP</td><td></td></tr><tr><td>Quadro P1000</td><td>640</td><td>4GB</td><td>50W</td><td>4xminiDP</td><td></td></tr><tr><td>Quadro P2000</td><td>1024</td><td>5GB</td><td>75W</td><td>4xDP</td><td></td></tr><tr><td>Quadro P4000</td><td>1792</td><td>8GB</td><td>120W</td><td>4xDP</td><td></td></tr><tr><td>Quadro P5000</td><td>2560</td><td>16GB</td><td>180W</td><td>DVI-D DL+4xDP</td><td></td></tr></table>	Adapter	Cores	Memory	Power	Connector	SLI	NVS 310	48	1GB	19.5W	2xDP		NVS 315	48	1GB	19.3W	2xDVI-I SL/2xDP		NVS 510	192	2GB	33.4W	4xmini DP		NVS 810	1024	4GB	68W	8xmini DP		Quadro P400	256	2GB	30W	3xminiDP		Quadro P600	384	2GB	45W	4xminiDP		Quadro P1000	640	4GB	50W	4xminiDP		Quadro P2000	1024	5GB	75W	4xDP		Quadro P4000	1792	8GB	120W	4xDP		Quadro P5000	2560	16GB	180W	DVI-D DL+4xDP	
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Storage controllers	Integrated Intel SATA AHCI/RAID controller in chipset, 6Gbps SATA, RAID 0/1/10/5. Integrated Intel PCIe host in processor for M.2 PCIe NVMe drives, optional RAID 0/1 with Intel NVMe RAID upgrade basic. Optional Broadcom 9440-8i, PCIe adapter, 12Gbps, SATA/SAS, RAID 0/1/10/5																																																																		
5.25" flex bay	Two 5.25" flex bays, supports the following options: - Up to two half-height optical drives. - Up to two 5.25" slim ODD cages. - Up to two 5.25" slim ODD and HDD cages. - Up to one Front Access Storage Enclosure. - Up to one flex module for one or more of the following options: 9.0mm optical/ 15-in-1 USB 3.0 reader/front eSATA/front Thunderbolt/4-digit diagnostic display <i>Note: Only one can be supported from 15-in-1 reader, Thunderbolt, and 4-digit display</i>																																																																		
Disk drive bays	Up to two internal 3.5" drive bays. Each bay supports one 3.5" or 2.5" disk. Up to two 2.5" or 3.5" SATA/SAS disk drives on 5.25" flex bays via 5.25" Front Access Storage Enclosure supports SATA or 5.25" slim ODD and HDD cage																																																																		
M.2 slots	Up to 5 x M.2 PCIe NVMe SSD: - Two onboard M.2 slots. - Up to three PCIe 3.0 x4 adapters, each adapter supports one M.2 slot Supports RAID 0/1 on onboard M.2 disks, optional NVMe RAID upgrade is needed																																																																		
Internal storage	<table><tr><td>HDD 7.2K 3.5" SATA6Gbps</td><td>1TB/2TB/4TB</td></tr><tr><td>SSD 2.5" SATA6Gbps</td><td>256GB Opal/512GB/512GB Opal/1TB Opal/2TB Opal</td></tr><tr><td>M.2 PCIe NVMe, PCIe 3.0 x4</td><td>256GB Opal/512GB Opal/1TB Opal</td></tr></table>	HDD 7.2K 3.5" SATA6Gbps	1TB/2TB/4TB	SSD 2.5" SATA6Gbps	256GB Opal/512GB/512GB Opal/1TB Opal/2TB Opal	M.2 PCIe NVMe, PCIe 3.0 x4	256GB Opal/512GB Opal/1TB Opal																																																												
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Media reader	9-in-1 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																																																																		
Security features	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant, switch to 1.2 via UEFI setting. Optional Kensington lock, and pad lock																																																																		
Systems management	Intel Active Management Technology 11. 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	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)																																																																		
Rear ports	Two USB 2.0, four USB 3.0, one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in), two PS/2																																																																		

Components	Specification		
Optional ports	Supports the following optional ports: • Optional COM port • Two USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W • Two Thunderbolt ports (USB Type-C) on flex module, one of two ports supports video-out. • One eSATA on flex module • One internal USB 3.0 port		
Power supply	One fixed 500W, autosensing, 92%, 80 PLUS Platinum qualified		
Environmental specification	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)	
	Temperature - non operating (no package)	14 °F to 140 °F (-10 °C to 60 °C)	
	Temperature - non operating (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	
	RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 6.1 qualified on following models:		
	Model	30BX0008US	30BX0009US
	Processor	Intel Xeon W-2123	Intel Xeon W-2123
	Memory	2x 8GB RDIMM DDR4-2666 ECC	2x 8GB RDIMM DDR4-2666 ECC
Disks	2x 1TB HDD 7.2K 3.5" SATA6Gbps	2x 256GB SSD 2.5" SATA6Gbps Opal	
Graphics	NVIDIA Quadro P400 2GB	NVIDIA Quadro P4000 8GB	
Optical	HH DVD±RW	HH DVD±RW	
PSU	500W	500W	
OS	Win10 Pro 64	Win10 Pro 64	
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/		



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

Note: When NVIDIA Quadro P5000, dual Quadro NVS 810, or dual Quadro P4000 is used, the HDD bay on the bottom will be unavailable

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