## **ThinkStation P520c Platform Specifications**

Components	Specification		i Opec					
•	•						-	
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)						-llc	
Processor	Up to one 140W Intel Xeon W family processor. Up to 18 cores at 2.3GHz, 4.0GHz with 4 cores. Memory speed up to DDR4-2666						3GHz, up to	
Chipset	Intel C422 Chip							
Memory	4 DIMM sockets with 4 channels. RDIMMs. DDR4-2666						ΠP	
Memory capacity	Up to 128GB with 4 x 32GB RDIMMs							11
Memory protection	ECC							1
	Two PCIe 3.0 x P5000 plus one adapters under	e Qua r 75W	dro P200 up to 2. \$	0, or u Suppor	ion slots section). Up to op to two Quadro P4000. Op ts the following graphics	Other gradapter	raphics	
	Adapter		Memory		Connector	SLI		
	NVS 310	48	1GB	19.5W	2xDP			
	NVS 315 NVS 510	48 192	1GB 2GB	19.3W 33.4W	2xDVI-I SL/2xDP 4xmini DP			lle
Graphics	NVS 810	1024	4GB	68W	8xmini DP			s
	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			
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 Two 5.25" flex bays, supports the following options:				IS			
5.25" flex bay	<ul> <li>Up to two ha</li> <li>Up to two 5.2</li> <li>Up to two 5.2</li> <li>Up to one Fr</li> <li>Up to one flee</li> </ul>	If-heig 25" slir 25" slir ont Ac x mod	tht optica m ODD com m ODD a ccess Sto Jule for or	I drives ages. nd HD rage E ne or m	s. D cages.	ns: 9.0 it diagn	mm optical/ ostic display	2)
Disk drive bays	Up to two 2.5" Access Storage	or 3.5' e Encl	" SATA/S/ osure su	AS disl pports	ach bay supports one 3.5 k drives on 5.25" flex bay SATA or 5.25" slim ODD	s via 5.	25" Front	
M.2 slots	<ul><li>Up to 5 x M.2 F</li><li>Two onboard</li><li>Up to three F</li><li>Supports BAID</li></ul>	l M.2 s PCle 3	slots. 3.0 x4 ada	apters,	each adapter supports o disks, optional NVMe RA	ne M.2 ID upar	slot ade is needed	
Internal storage	HDD 7.2K 3.5" SAT SSD 2.5" SATA6Gb M.2 PCIe NVMe, P	A6Gbps ps Cle 3.0	1TB/2TB/ 256GB O x4 256GB O	'4TB pal/512G pal/512G	iB/512GB Opal/1TB Opal/2TB Op iB Opal/1TB Opal	al		
Media reader	reader on flex i	modul	е		models. Optional UHS-II			
Network interfaces	PCIe ethernet	or wire	eless ada	pters a	i219LM), supports Wake re 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	Intel Active Ma	nagen	nent Tech	ınology	11. ThinkStation Diagno	stics fo	r Windows.	
management					ay on flex module			
Base warranty	1 or 3-year limi	ted or	site serv	ice witl	n 9x5/NBD			
HD Audio	Realtek ALC662 codec					1		
Front ports				5mm).	headphone (3.5mm)			1
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							
		Supports the following optional ports:							
$\dashv$		Optional COM port     Two USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one							
-									
_	Optional ports	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							
		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 - op	erating	(Unpressurized): -50ft-10000ft (-15.2m-3048m)					
		Humidity - o	perating	10%~80%, non-condensing					
		Humidity - st	orage (with package)	10%~90%, non-condensing					
	Environmental	RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR							
	specification	6.1 qualified on following models:							
	op comount.	Model	30BX0008US		30BX0009US				
		Processor	Intel Xeon W-212		Intel Xeon W-2123				
		Memory	2x 8GB RDIMM DDR4-26		2x 8GB RDIMM DDR4-2666 ECC				
		Disks	2x 1TB HDD 7.2K 3.5" SA						
		Graphics	NVIDIA Quadro P400	2GB	NVIDIA Quadro P4000 8GB				
		Optical	HH DVD±RW		HH DVD±RW				
_		PSU	500W	500W					
5.		OS	Win10 Pro 64		Win10 Pro 64				
	ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/							



Note: All expansion cards are optional

## **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