

ThinkStation P520 30BE007S--

Region	Power Supply
WE	Fixed 900W Platinum
Machine Type	Optional Ports
30BE	1x Serial
TopSeller	Front Diagnostic LED
TopSeller	None
Processor	Keyboard / Mouse
Xeon W-2133 6C/3.6GHz/8.25MB/140W/DDR4-2666	USB / USB Optical
Graphics	Operating System
Open	Windows 10 Pro 64
Memory	Warranty
1x 16GB RDIMM DDR4-2666 ECC	3-year, Onsite
Storage Controller	Global
Integrated Intel SATA	No
M.2 RAID Upgrade	End of Support
None	Apr 27, 2024
Disks	Ann Date (mm/yy)
None	03/18
M.2 Drives	
1x 512GB SSD M.2 PCIe Opal, Onboard	
Optical	
1x HH DVD±RW	
Media Reader	
9-in-1	
Additional Networking	
None	

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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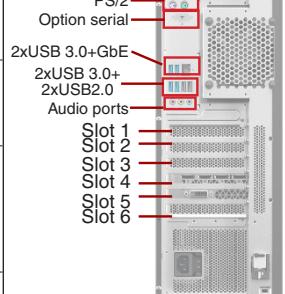
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Components	Specification	Components	Specification																																																																							
Form factor	33L Tower	Base warranty	1 or 3-year limited onsite service with 9x5/NBD																																																																							
Dimensions	165mm/6.5" W x 460mm/18.1" D x 440mm/17.3" H (with feet)	HD Audio	Realtek ALC662 codec for rear audio ports, Realtek ALC233 codec for front audio port																																																																							
Weight	Maximum configuration: 52.91 lb (24kg)	Front ports	Four USB 3.0 (includes one 11W charging), one combo audio/microphone jack (3.5mm)																																																																							
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	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																																																																							
Chipset	Intel C422 Chipset	Optional ports	Supports the following optional ports: <ul style="list-style-type: none">• 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																																																																							
Memory	8 DIMM sockets with 4 channels. RDIMMs. DDR4-2666	Power supply	One fixed 690W or 900W, autosing, 92%, 80 PLUS Platinum qualified																																																																							
Memory capacity	Up to 256GB with 8 x 32GB RDIMMs	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																																																																							
Memory protection	ECC		RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR 6.1 qualified on following models:																																																																							
Graphics	Two PCIe 3.0 x16 slots (see Expansion slots section). Up to two NVIDIA Quadro P6000 (900W PSU is needed). Supports the following graphics adapters:																																																																									
	<table border="1"> <thead> <tr> <th>Adapter</th> <th>Cores</th> <th>Memory</th> <th>Power</th> <th>Connector</th> <th>SLI</th> </tr> </thead> <tbody> <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>SLI</td> </tr> <tr> <td>Quadro P6000</td> <td>3840</td> <td>24GB</td> <td>250W</td> <td>DVI-D DL+4xDP</td> <td></td> </tr> </tbody> </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	SLI	Quadro P6000	3840	24GB	250W	DVI-D DL+4xDP
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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 0/1/10 with Intel NVMe RAID upgrade basic, optional RAID 0/1/10/5 with Intel NVMe RAID upgrade premium.																																																																										
Optional Broadcom 9440-8i, PCIe adapter, 12Gbps, SATA/SAS, RAID 0/1/10/5. Or optional Broadcom 9460-16i with 4GB DDR4 memory and SuperCap, PCIe adapter, 12Gbps, SATA/SAS, RAID 0/1/10/5/6																																																																										
Two 5.25" flex bays, supports the following options: <ul style="list-style-type: none">• 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 <p>Note: Only one can be supported from 15-in-1 reader, Thunderbolt, and 4-digit display</p>																																																																										
Up to four internal 3.5" drive bays. Two standard, two optional. 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																																																																										
Up to 9 x M.2 PCIe NVMe SSD: <ul style="list-style-type: none">• Two onboard M.2 slots.• Up to one full height, full length PCIe 3.0 x16 adapter, supports four 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 and RAID 0/1/10/5 on quad M.2 PCIe x16 adapter, optional NVMe RAID upgrade is needed																																																																										
Internal storage	HDD 7.2K 3.5" SATA6Gbps 1TB/2TB/4TB/6TB SSD 2.5" SATA6Gbps 256GB Opal/512GB Opal/1TB Opal/2TB Opal M.2 PCIe NVMe, PCIe 3.0 x4 256GB Opal/512GB Opal/1TB Opal																																																																									
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 access panel lock, Kensington lock, and pad lock																																																																									
Systems management	Intel Active Management Technology 11. Front panel warning LED. ThinkStation Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS. Optional front 4-digit diagnostic display on flex module																																																																									



Note: All expansion cards are optional

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