### ThinkStation P320 SFF 30BK0021--

Region EMEA

Machine Type 30BK

TopSeller TopSeller

Processor Xeon E3-1245 v6 4C/3.7GHz/8MB/73W/DDR4-2400

Graphics Intel HD P630

Memory 1x8GB UDIMM DDR4-2400 ECC

Disks Open

M.2 Drives 1x256GB SSD M.2 PCIe Opal

Optical HH DVD±RW

Media Reader 9-in-1

Power Supply 210W Bronze Fixed

Optional Ports Serial

Keyboard / Mouse USB / USB Opt Operating System Windows 10 Pro 64

Warranty 3-year, Onsite

Global No

End of Support Sep 26, 2022

Ann Date (mm/yy) 09/17

### 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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# ThinkStation P320 SFF Platform Specifications Components Specification

Chipset

Intel AMT

Processor

Memory DIMM slots Memory type/capacity

Intel HD Graphics in processor

Discrete graphics

Onboard drive controller

Supporting disk drives

Max internal storage

Media reader

Power supply

TPM

Onboard Ethernet HD Audio 10TB (2 x 4TB 3.5" HDDs + 1 x 2TB 2.5" SSD) plus two 1TB M.2 NVMe SSD

9-in-1 card reader. Optional 29-in-1 card reader on selected models

One onboard gigabit ethernet, Intel I219LM, supports Wake-on-LAN

210 watts with variable speed fan, autosensing, Climate Savers Computing Bronze, 80 PLUS Bronze qualified

Realtek ALC662 codec

Standard, TCG 2.0-compliant

Drive Bays

Product Specifications Reference (PSREF)

Specification	Components	Specification
Intel C236 Chipset		Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
	Front ports	
Intel Active Management Technology 11 on Xeon models, Intel Standard Manageability on other models	Rear ports	1 VGA and 2 DisplayPort (for Intel HD Graphics models only), two USB 2.0, four USB 3.0, one serial (9-pin), one ethernet (RJ-45),
One Intel "Kabylake" or "Skylake" processor as listed:		three analog audio ports (line-in, line-out, mic-in)
"Kaby Lake"		Raven black color; metal case
Xeon E3-1280 v6         4C/3.9GHz/8MB/72W/DDR4-2400           Xeon E3-1275 v6         4C/3.8GHz/8MB/73W/DDR4-2400	Mashaniaal	<ul> <li>4.02"W x 15.53"D x 13.31"H</li> <li>102mm W x 394.5mm D x 338mm H</li> </ul>
Xeon E3-1275 V6 4C/3.8GHz/8MB/73W/DDR4-2400	Mechanical	<ul> <li>102min W x 394.5min D x 336min F</li> <li>17.2 lb (7.9kg) max configuration</li> </ul>
Xeon E3-1270 v6         4C/3.8GHz/8MB/72W/DDR4-2400           Xeon E3-1245 v6         4C/3.7GHz/8MB/73W/DDR4-2400           Xeon E3-1240 v6         4C/3.7GHz/8MB/72W/DDR4-2400		• 12.9-liter
Xeon E3-1240 v6 4C/3.7GHz/8MB/72W/DDR4-2400	Environmental	GREENGUARD certified/RoHS-compliant/EPEAT Gold rating/
Xeon E3-1230 v6 4C/3.5GHz/8MB//2W/DDR4-2400	certifications	ENERGY STAR 6.1 qualified
Xeon E3-1220 v6 4C/3GHz/8MB/72W/DDR4-2400		1 or 3-year limited onsite service with 9x5/NBD. Some parts are Customer
Core i7-7700 4C/3.6GHz/8MB/65W/DDR4-2400	Limited warranty	Replaceable Units.
Xeon E3-1280 v6         4C/3.9GHz/8MB/72W/DDR4-2400           Xeon E3-1275 v6         4C/3.8GHz/8MB/73W/DDR4-2400           Xeon E3-1270 v6         4C/3.8GHz/8MB/72W/DDR4-2400           Xeon E3-1245 v6         4C/3.7GHz/8MB/72W/DDR4-2400           Xeon E3-1240 v6         4C/3.7GHz/8MB/72W/DDR4-2400           Xeon E3-1220 v6         4C/3.5GHz/8MB/72W/DDR4-2400           Xeon E3-1220 v6         4C/3.5GHz/8MB/72W/DDR4-2400           Xeon E3-1220 v6         4C/3.3GHz/8MB/72W/DDR4-2400           Xeon E3-1220 v6         4C/3.3GHz/8MB/72W/DDR4-2400           Core i5-7600         4C/3.4GHz/8MB/65W/DDR4-2400           Core i5-7500         4C/3.4GHz/6MB/65W/DDR4-2400           Core i5-7400         4C/3.4GHz/6MB/65W/DDR4-2400           Core i5-7400         4C/3.4GHz/6MB/65W/DDR4-2400	ISV certifications	Please visit <u>www.thinkworkstations.com/isv-certifications/</u>
Core i5-7400 4C/3GHz/6MB/65W/DDR4-2400	15V Certifications	Flease visit www.thinkworkstations.com/isv-certifications/
Core i3-7300 2C/4GHz/4MB/51W/DDR4-2400 Core i3-7100 2C/3.9GHz/3MB/51W/DDR4-2400		Drive Bays and PCIe Slots
	$\langle \langle \rangle$	5.25", supports one of the following:
"Skylake"		HH ontical/flex module***/9mm ontical+3.5" HDD bav/
Xeon E3-1245 v5 4C/3.5GHz/8MB/80W/DDR4-2133		Bay 1 3.5" HDD bay/Front Access Storage Enclosure
Xeon E3-1240 v5 4C/3 5GHz/8MB/80W/DDB4-2133		*** Flex module supports one or more of the following: 9mm optical/
Xeon E3-1230 v5         4C/3.4GHz/8MB/80W/DDR4-2133           Xeon E3-1225 v5         4C/3.3GHz/8MB/80W/DDR4-2133           Xeon E3-1220 v5         4C/3GHz/8MB/80W/DDR4-2133		
Xeon E3-1220 v5 4C/3GHz/8MB/80W/DDR4-2133		Bay 2 Optional 9-in-1 single slot reader
Core i7-6700         4C/3.4GHz/8MB/65W/DDR4-2133           Core i5-6500         4C/3.2GHz/6MB/65W/DDR4-2133		Bay 3 Standard 3.5" HDD bay
Core i5-6400 4C/2.7GHz/6MB/65W/DDR4-2133	A COLOR	Bay 4 Optional 2.5" HDD bay (under Bay 3)
Core i3-6100 2C/3.7GHz/3MB/51W/DDR4-2133		2 Four PCIe slots (top-down):
4 DIMM slots, 2-channel (integrated memory controller in processor)		Slot 1: Low Profile, PCIe 3.0 x16 (near CPU)
Up to 64GB ECC/non-ECC (4 x 16GB), DDR4-2400. UDIMM. "Skylake"		5 -Slots Slot 2: Low Profile, PCIe 3.0 x1 Slot 3: Low Profile, PCIe 3.0 x16 (x4 elec)
processor supports up to DDR4-2133. Core i7 and i5 processors cannot	5	Slot 3: Low Profile, PCle 3.0 x10 (x4 elec)
support ECC.		
Integrated Intel HD P530 in Xeon E3-12x5 v5 processors, or Intel HD P630		
in Xeon E3-12x5 v6 processors, or Intel HD 530 in Core i7, i5, or i3 6000	4 3	$\Psi$
processors. or Intel HD 630 in Core i7, i5, or i3 7000 processors. Works along		
with discrete graphics to support multi-display, enables three display connecto	rs	
(2 DP, 1 VGA) on rear.		
Two PCI Express 3.0 x16 slots for graphics adapters. Up to two NVIDIA Quade P1000. Supports the following NVIDIA graphic adapters:	0	
Adapter Cores Memory Power Connector		
NVS 310 48 1GB 19.5W 2xDP		
NVS 315         48         1GB         19.5W         2xDVI-I SL/2xDP           NVS 510         192         2GB         33.4W         4xmini DP		
INVS 510         192         2GB         33.4W         4xmini DP           Quadro P400         256         2GB         30W         3xminiDP		
Quadro P400 256 2GB 30W 3XmmDP Quadro P600 384 2GB 40W 4xminiDP		
Quadro P1000 640 4GB 47W 4xminiDP		
Five onboard SATA 6.0Gb/s connectors for optical and disk drives plus one	-	
SATA connector for optional eSATA. RAID 0, 1, 5* support		
* RAID 5 needs three 2.5" SSD drives.		
One external 5.25" bay, one internal 3.5" bay (see right).		
Up to one 9mm optical + 2 x 3.5" disk drive bays + 1 x 2.5" disk drive bay + tw M.2 NVMe SSD	0	
M.2 NVMe SSD		
3.5" SATA HDD (7.2K 6Gbs) 1TB/2TB/4TB/1TB hybrid/2TB hybrid		
2.5" SATA SSD (6Gbs) 256GB Opal/512GB/512GB Opal/1TB Opal/2TB opal		
M.2 NVMe SSD, via PCIe 256GB Opal/512GB Opal/1TB Opal, via PCIe 3.0 x4 adapter, up adapter to 2; or 16GB Intel Optane Memory, PCIe 3.0 x2		

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