ThinkStation P320 SFF 30BK0022**

Region

EMEA

Machine Type

30BK

TopSeller

TopSeller

Processor

Core i5-6500 4C/3.2GHz/6MB/65W/DDR4-2133

Graphics

Intel HD 530

Memory

1x8GB UDIMM DDR4-2400 Non-ECC

Disks

1x256GB SSD 2.5" SATA6Gbps Opal

M.2 Drives

None

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 DG Windows 7 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 P3	20 SFF Platform Specifications		Product Specifications Reference (PSREF)
Components	Specification	Components	Specification
Chipset	Intel C236 Chipset	Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
Intel AMT	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: "Kaby Lake" 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/73W/DDR4-2400 Xeon E3-1245 v6 4C/3.7GHz/8MB/73W/DDR4-2400 Xeon E3-1240 v6 4C/3.7GHz/8MB/72W/DDR4-2400 Xeon E3-1240 v6 4C/3.7GH	Mechanical	three analog audio ports (line-in, line-out, mic-in) Raven black color; metal case 4.02"W x 15.53"D x 13.31"H 102mm W x 394.5mm D x 338mm H 17.2 lb (7.9kg) max configuration 12.9-liter
Processor	Xeon E3-1230 v6 4C/3.5GHz/8MB/72W/DDR4-2400 Xeon E3-1225 v6 4C/3.3GHz/8MB/73W/DDR4-2400 Xeon E3-1220 v6 4C/3GHz/8MB/72W/DDR4-2400	Environmental certifications	GREENGUARD certified/RoHS-compliant/EPEAT Gold rating/ ENERGY STAR 6.1 qualified
	Action 15-1220 v6 4C/3GHZ/6MB/672W/IDJR4-2400	Re Re	1 or 3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units.
	Core i5-7400 4C/3GHz/6MB/65W/DDR4-2400 4C/3GHz/6MB/65W/DDR4-2400	ISV certifications	Please visit <u>www.thinkworkstations.com/isv-certifications/</u>
	Core i3-7300 2C/4GHz/4MB/51W/DDR4-2400 Core i3-7100 2C/3.9GHz/3MB/51W/DDR4-2400		Drive Bays and PCle Slots
	"Skylake" Xeon E3-1245 v5		5.25", supports one of the following: HH optical/flex module***/9mm optical+3.5" HDD bay/ 3.5" HDD bay/Front Access Storage Enclosure ***Flex module supports one or more of the following: 9mm optical/ 29-in-1 reader/front IEEE 1394/front eSATA. Up to one flex module is supported per system. Bay 2 Optional 9-in-1 single slot reader Bay 3 Standard 3.5" HDD bay Bay 4 Optional 2.5" HDD bay (under Bay 3) Four PCIe slots (top-down): Slot 1: Low Profile, PCIe 3.0 x16 (near CPU)
Memory DIMM slots	4 DIMM slots, 2-channel (integrated memory controller in processor)		5 -Slots Slot 2: Low Profile, PCIe 3.0 x10 (flear GPO)
Memory type/capacity	Up to 64GB ECC/non-ECC (4 x 16GB), DDR4-2400. UDIMM. "Skylake" processor supports up to DDR4-2133. Core i7 and i5 processors cannot support ECC.	5	Slot 3: Low Profile, PCle 3.0 x16 (x4 elec) Slot 4: Low Profile, PCle 3.0 x1
Intel HD Graphics in processor	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 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 connectors (2 DP, 1 VGA) on rear.	4 3	
	Two PCI Express 3.0 x16 slots for graphics adapters. Up to two NVIDIA Quadro P1000. Supports the following NVIDIA graphic adapters:		
Discrete graphics	Adapter Cores Memory Power Connector NVS 310 48 1GB 19.5W 2XDP NVS 310 48 1GB 19.5W 2XDP		

2xDVI-I SL/2xDP

4xmini DP

3xminiDP

4xminiDP

4xminiDP

256GB Opal/512GB/512GB Opal/1TB Opal/2TB opal 256GB Opal/512GB Opal/1TB Opal, via PCle 3.0 x4 adapter, up to 2; or 16GB Intel Optane Memory, PCle 3.0 x2

Discrete graphics

Onboard drive controller

Supporting disk drives

Max internal storage

Media reader

Power supply
Onboard Ethernet

HD Audio

TPM

Drive Bays

NVS 315

NVS 510

Quadro P400

Quadro P600

Quadro P1000

M.2 NVMe SSD

2.5" SATA SSD (6Gbs) M.2 NVMe SSD, via PCle

Realtek ALC662 codec

Standard, TCG 2.0-compliant

48

192

256

384

640

1GB

2GB

2GB

2GB

4GB

3.5" SATA HDD (7.2K 6Gbs) 1TB/2TB/4TB/1TB hybrid/2TB hybrid

19.5W

33.4W

30W

40W

47W

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 + two

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

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

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.

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