ThinkStation P310 SFF Platform Specifications

Components	Specification
Chipset	Intel C236 Chipset
Intel AMT	Intel Active Management Technology 11 supported on Xeon models
Processor	One LGA1151 socket, supports one the following processors: • Xeon E3-12x0 v5: up to 4C/3.7GHz/2133MHz/8MB • Xeon E3-12x5 v5: up to 4C/3.6GHz/2133MHz/8MB • Core i7: up to 4C/3.4GHz/2133MHz/8MB • Core i5: up to 4C/3.3GHz/2133MHz/6MB • Core i3: up to 2C/3.9GHz/2133MHz/4MB
Memory DIMM slots	4 DIMM slots, 2-channel (integrated memory controller in processor)
Memory type/capacity	Up to 64GB ECC/non-ECC (4 x 16GB), 2133MHz DDR4, UDIMM
Intel HD Graphics in processor	Integrated Intel HD P530 in Xeon E3-12x5 v5 processors; or Intel HD 530 in Core i7, i5, or i3 processors. Works along with discrete graphics to support multi-display, enables three display connectors (2 DP, 1 VGA) on rear. Max Resolution: 4096 x 2304

Discrete graphics

Two PCI Express 3.0 x16 slots for graphics adapters. Up to two Quadro K1200. Supports the following NVIDIA graphics adapters:

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
Quadro K420	192	2GB	41W	1xDVI-I DL+1xDP
Quadro K620	384	2GB	45W	1xDVI-I DL+1xDP
Quadro K1200	512	4GB	45W	4xminiDP

Components	Specification
Onboard drive controller	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 supports three 2.5" SSDdrives only.*
Drive Bays	One external 5.25" bay, one internal 3.5" bay (see right). Up to one 9.5mm optical + 2 x 3.5" disk drive bays + 1 x 2.5" disk drive bay + one M.2 NVMe SSD

Supporting disk drives		
3.5" SATA HDD (7.2K 6Gbs)	500GB/1TB/2TB/3TB/4TB/1TB hybrid/2TB hybrid	
2.5" SATA SSD (6Gbs)	128GB/180GB*/240GB*/256GB*/480GB*/512GB/1TB*	
M.2 NVMe SSD	256GB*/512GB, via PCIe 3.0 x4 adapter	

*** Includes OPAL options*

Components	Specification
Max internal storage	9TB (2 x 4TB 3.5" HDDs + 1 x 1TB 2.5" SSD) plus one 512GB M.2 NVMe SSD
Media reader	9-in-1 card reader. Optional 29-in-1 card reader on selected models
Power supply	210 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified
Onboard Ethernet	One onboard gigabit ethernet, Intel I219LM, supports Wake-on-LAN
HD Audio	Realtek ALC662 codec

Components	Specification
TPM	Standard, TCG 1.2-compliant
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	1 VGA and 2 DisplayPort (functional only on Intel HD Graphics models), two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)
IEEE 1394	Optional. One front port in flex module and one rear port
eSATA	Optional. One front port in flex module
Keyboard/Mouse	104-key Keyboard and optical mouse, USB connector
Mechanical	• 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
Environmental certifications	GREENGUARD certified/RoHS-compliant/EPEAT Gold rating/ ENERGY STAR 6.1 qualified
Limited warranty	1 or 3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units.
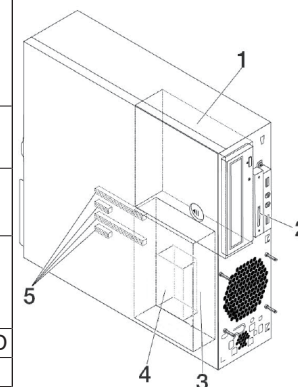
Drive Bays and PCIe Slots

Bay 1	5.25", supports one of the following: HH optical/flex module***/9.5mm optical+3.5" HDD bay/ 3.5" HDD bay/Front Access Storage Enclosure *** Flex module supports one or more of the following: 9.5mm 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)
5 -Slots	Four PCIe slots (top-down): Slot 1: Low Profile, PCIe 3.0 x16 (near CPU) Slot 2: Low Profile, PCIe 3.0 x1 Slot 3: Low Profile, PCIe 3.0 x16 (x4 elec) Slot 4: Low Profile, PCIe 3.0 x1