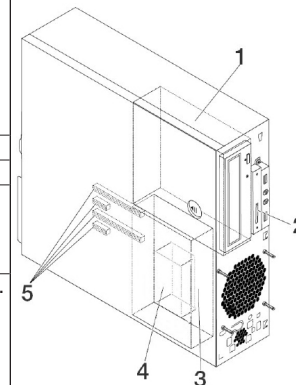


ThinkStation P310 SFF Platform Specifications

Product Specifications Reference (PSREF)

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 E3-1280 v5	4C/3.7GHz/8MB/80W/DDR4-2133			
	Xeon E3-1275 v5	4C/3.6GHz/8MB/80W/DDR4-2133			
	Xeon E3-1270 v5	4C/3.6GHz/8MB/80W/DDR4-2133			
	Xeon E3-1245 v5	4C/3.5GHz/8MB/80W/DDR4-2133			
	Xeon E3-1240 v5	4C/3.5GHz/8MB/80W/DDR4-2133			
	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			
	Core i7-6700	4C/3.4GHz/8MB/65W/DDR4-2133			
	Core i5-6600	4C/3.3GHz/6MB/65W/DDR4-2133			
	Core i5-6500	4C/3.2GHz/6MB/65W/DDR4-2133			
	Core i5-6400	4C/2.7GHz/6MB/65W/DDR4-2133			
	Core i3-6320	2C/3.9GHz/4MB/51W/DDR4-2133			
	Core i3-6300	2C/3.8GHz/4MB/51W/DDR4-2133			
	Core i3-6100	2C/3.7GHz/3MB/51W/DDR4-2133			
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), DDR4-2133, 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	
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 <i>* RAID 5 supports three 2.5" SSD drives only.</i>				
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/6TB/1TB hybrid/2TB hybrid			
	2.5" SATA SSD (6Gbs)	128GB/180GB*/240GB*/256GB*/480GB*/512GB*/1TB*			
	M.2 NVMe SSD	256GB*/512GB*/1TB*, via PCIe 3.0 x4 adapter			
	<i>** Includes OPAL options</i>				
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				
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)				
Additional ports	Supports the following optional ports: • Two IEEE 1394 (one on rear and one on front flex module) via PCIe adapter, up to one adapter per system. Supports one of the following per system: • Two rear USB 3.0 per PCIe adapter. • One front eSATA (on flex module), or one rear eSATA via cable and PCIe slot bracket, up to one eSATA port per system. • One additional serial port via cable. • One parallel port via cable				

Components	Specification
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
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

For the list of ISV certifications, please visit www.thinkworkstations.com/isv-certifications/
For a list of all supported options, please visit https://download.lenovo.com/pccbbs/options_iso/ocm_december_2016.xlsx sheet

Model	30AV000XUS
Product	ThinkStation P310 SFF
Region	US
Machine Type	30AV
TopSeller	TopSeller
Processor	Xeon E3-1230 v5 4C/3.4GHz/8MB/80W/DDR4-2133
Graphics	NVIDIA Quadro K1200 4GB
Memory (Capacity/Type)	4x8GB UDIMM DDR4-2133 Non-ECC
Storage (Capacity/Type/Interface)	1x512GB SSD 2.5" SATA6Gbs
Optical	HH DVD±RW
Media Reader	9-in-1
Power Supply	210W 85%
Add-on Ports	None
Discrete Ethernet	None
Chassis Intrusion Switch	Switch
Keyboard / Mouse	USB / USB Optical
Operating System	Windows 10 DG Windows 7 Pro 64
Warranty	3-year
Global	No
Ann Date (mm/yy)	02/16

