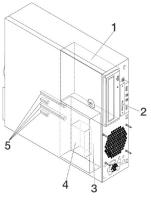
## **ThinkStation P310 SFF Platform Specifications**

Components	Specification			cations		
Chipset	Intel C236 Chipset					
Intel AMT	Intel C236 Onlpset Intel Active Management Technology 11 supported on Xeon models					
IIICI 7 (WI I	One LGA1151 socket, supports one the following processors:					
Processor	Xeon E3-1280 v5 Xeon E3-1270 v5 Xeon E3-1270 v5 Xeon E3-1245 v5 Xeon E3-1245 v5 Xeon E3-1240 v5 Xeon E3-1220 v5 Xeon E3-1220 v5 Core i7-6700 Core i5-6600 Core i5-6500 Core i5-6400 Core i3-6320 Core i3-6300 Core i3-6300 Core i3-6100		4C/3.7GHz 4C/3.6GHz 4C/3.6GHz 4C/3.5GHz 4C/3.5GHz 4C/3.4GHz 4C/3.4GHz 4C/3.4GHz 4C/3.3GHz 4C/3.2GHz 4C/3.2GHz 4C/3.2GHz 4C/3.2GHz 4C/3.3GHz 4C/3.3GHz 4C/3.3GHz	(8MB/80W/D (8MB/80W/D (8MB/80W/D (8MB/80W/D (8MB/80W/D (8MB/80W/D (8MB/80W/D (8MB/65W/D (6MB/65W/D (6MB/65W/D (4MB/51W/D (3MB/51W/D	DR4-2133	
Memory DIMM slots	4 DIMM slots, 2-c	hanne	el (integra	ted 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					
	Two PCI Express 3.0 x16 slots for graphics adapters. Up to two Quadro K1200. Supports the following NVIDIA graphics adapters:					
	Adapter	Cores		Power	Connector 2xDP	
Discrete graphics	NVS 310 NVS 315	48 48	1GB 1GB	19.5W 19.5W	2xDVI-I SL/2xDP	
gp	NVS 510	192	2GB	33.4W	4xmini DP	
	Quadro K420	192	2GB	41W	1xDVI-I DL+1xDP	
	Quadro K620 Quadro K1200	384 512	2GB 4GB	45W 45W	1xDVI-I DL+1xDP 4xminiDP	
Onboard drive controller  Drive Bays	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.  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 +					
Supporting disk drives	one M.2 NVMe SSD           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 PCle 3.0 x4 adapter           ** Includes OPAL options					
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					der 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-com	pliant			
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 adpater, 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	<ul> <li>Raven black color; metal case</li> <li>4.02"W x 15.53"D x 13.31"H</li> <li>102mm W x 394.5mm D x 338mm H</li> <li>17.2 lb (7.9kg) max configuration</li> <li>12.9-liter</li> </ul>			
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**

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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 <u>www.thinkworkstations.com/isv-certifications/</u>
For a list of all supported options, please visit <u>https://download.lenovo.com/pccbbs/options\_iso/ocm\_december\_2016.xlsx\_sheet</u>