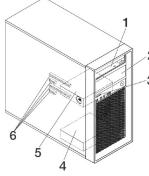
ThinkStation P310 Tower Platform Specifications

Components	Specification		-			
Chipset	Intel C236 Chipset					
Intel AMT						
	One LGA1151 socket, supports one the following processors:					
Processor	Xeon E3-1280 v5 Xeon E3-1275 v5 Xeon E3-1270 v5 Xeon E3-1240 v5 Xeon E3-1240 v5 Xeon E3-1230 v5 Xeon E3-1220 v5 Xeon E3-1220 v5 Core i7-6700 Core i5-6600 Core i5-6500 Core i5-6400 Core i5-6400 Core i5-6400	4C 4C 4C 4C 4C 4C 4C 4C 4C 4C	2/3.6GHz/8 2/3.5GHz/8 2/3.5GHz/8 2/3.3GHz/8 2/3.3GHz/8 2/3.4GHz/8 2/3.3GHz/6 2/3.3GHz/6 2/3.2GHz/6 2/2.7GHz/6	MB/80W/D MB/80W/D MB/80W/D MB/80W/D MB/80W/D MB/80W/D B/80W/D MB/65W/D MB/65W/D MB/65W/D MB/65W/D	DR4-2133 DR4-2133 DR4-2133 DR4-2133 DR4-2133 DR4-2133 DR4-2133 DR4-2133 DR4-2133	
	Core i3-6320 Core i3-6300	20	/3.8GHz/4	MB/51W/D MB/51W/D	DR4-2133	
	Core i3-6100	2C	:/3./GHz/3	MB/51W/D	DR4-2133	
Memory DIMM slots	4 DIMM slots, 2-ch	annel	(integrate	d memory	y controller in processor)	
Memory type/capacity	Up to 64GB ECC/n	on-EC	CC (4 x 16	GB), DDF	R4-2133, 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 on 250 watts models. Or up to two Quadro K2200, or up to one Quadro M4000 on 400 watts models. Supports the following NVIDIA graphics adapters:					
	Adapter	Cores		Power	Connector	
	NVS 310	48	1GB	19.5W	2xDP	_
Discrete graphics	NVS 315	48	1GB	19.5W	2xDVI-I SL/2xDP	-
	NVS 510 Quadro K420	192 192	2GB 2GB	33.4W 41W	4xmini DP 1xDVI-I DL+1xDP	-
	Quadro K420 Quadro K620	384	2GB 2GB	41W	1xDVI-I DL+1xDP	-
	Quadro K1200	512	4GB	45W	4xminiDP	1
	Quadro K2200	640	4GB	68W	1xDVI-I DL+2xDP	1
	Quadro M2000	768	4GB	75W	4xDP	7
	Quadro M4000	1664	8GB	120W	4xDP	
Onboard drive	Five onboard SATA	6.0GI	b/s conne	ctors for c	ptical and disk drives plu	s one
controller	SATA connector for optional eSATA. RAID 0, 1, 5, 10 support					
Drive Bays	Two external 5.25" Up to one 9.5mm o				ays (see right). Irive bays plus one M.2 N	VMe SSD
Supporting disk drives	IW.2 INVINIC GGB 250GB /512GB /11B , VIA 1 GIC 6.6 X4 ddapter					
May internal atorogo	** Includes OPAL options		a) plua E1		NIVMa CCD	
Max internal storage	16TB (4 x 4TB 3.5" HDDs) plus 512GB M.2 NVMe SSD 9-in-1 card reader. Optional 29-in-1 card reader on selected models					
Media reader				i card rea	der on selected models	
Power supply	Supports one of the following: • 250 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified • 400 watts with variable speed fan, autosensing, 92% PSU, Climate Savers Computing Platinum, 80 PLUS Platinum 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 (for Intel HD Graphics models only), 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)					

	Components	Specification	
	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 rear Thunderbolt via PCIe adapter. • One front eSATA (on flex module), or one rear eSATA via cable and P slot bracket, up to one eSATA port per system. • One additional serial port via cable. • One parallel port via cable	
	Mechanical	 Raven black color; metal case 6.89"W x 16.77"D x 14.8"H 175mm W x 426mm D x 376mm H 28.66 lb (13kg) max configuration 25-liter 	
	Environmental certifications	GREENGUARD certified/RoHS-compliant/EPEAT Gold rating/ ENERGY STAR 6.1 qualified	
Limited warranty 3-year limited onsite service with Replaceable Units.		3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units.	



Drive Bays and PCIe Slots

Bav 1	5.25", support 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 3	Optional 9-in-1 single slot reader
Bay 4	Standard 3.5" HDD bay
Bay 5	Standard 3.5" HDD bay
	Four PCIe slots (top-down): Slot 1: Half length, full height, PCIe 3.0 x16 (near CPU) Slot 2: Half length, full height, PCIe 3.0 x1 Slot 3: Half length, full height, PCIe 3.0 x16 (x4 elec) Slot 4: Half length, full height, 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