ThinkStation	P510 Platfo	orm \$	Specif	icati	ons	S		
Components	Specification							Compo
Chipset	Intel C612 Plat	form C	Controller	Hub (PCH	1)		Eront no
System mgmt	Intel Active Ma	nagen	nent Tech	nolog	v 9	,		Front po
-, 5.5giiii	Up to one 145W Intel Xeon E5-2600 v4 or E5-1600 v4 family processors.						Rear po	
Processor	22 cores up to 2.2GHz, 16 cores up to 2.6GHz, 14 cores up to 2.6GHz, 12						near po	
	cores up to 2.2GHz, 10 cores up to 2.4GHz, 8 cores up to 3.4GHz, 6 cores up							
	to 3.6GHz, 4 cores up to 3.7GHz Or up to one Intel Xeon E5-2600 v3 or E5-1600 v3 processors (not available in							
		itel Xe	on E5-26	600 v3	or E	5-1600 v3 processors (not	available in	
0	EMEA).							Add-on
Coprocessor	None	- 4 -1	1			IMMA FOO DDDA 0400M		
		is, 4-ci	nannei ca	apable.	. KD	IMM, ECC, DDR4, 2400MI	HZ	
Memory capacity	256GB							
Graphics,	Two PCIe 3.0 x16 slots for graphics and GPU computing adapters. Up to two NVIDIA Quadro M5000 SLI							
GPU computing	+			T=	1		-	
	Adapter		Memory			Connector***	4	Mechan
	NVS 310	48	1GB	19.5W		2xDP	4	
	NVS 315 NVS 510	48	1GB	19.5W		2xDVI-I SL/2xDP	-	
	NVS 810	192 1024	2GB 4GB	35W 68W		4xmini DP 8xmini DP	-	
	Quadro K420	192	2GB	41W		DVI-I DL+DP	-	
Supporting	Quadro K620	384	2GB	45W		DVI-I DL+DP	-	Environi
Graphics and	Quadro K1200	512	4GB	45W		4xmini DP	-	specifica
GPU computing	Quadro K2200	640	4GB	68W		DVI-I DL+2xDP	1	Specifica
ar o companing	Quadro K4200	1344	4GB	108W		DVI-I DL+2xDP	1	
	Quadro K5200	2304	8GB	150W	SLI	DVI-I DL+DVI-D DL+2xDP		
	Quadro M2000	768	4GB	75W		4xDP		
	Quadro M4000	1664	8GB	120W		4xDP		Base wa
	Quadro M5000	2048	8GB	150W	SLI	DVI-I DL+4xDP		
	Tesla K40	2880	12GB	235W				
RAID controller	RAID 0, 1, 5, 1 RAID 0, 1, 5, 6 optional 1GB fl	0 with 0 with , 10 wi ash w	onboard optional th option th super	SATA LSI RA al LSI capac	AID 1 936 itor,	roller in chipset, SATA 6Gb flex adapter, 12Gb/s SAS a 4-8i PCle adapter, 1GB me 12Gb/s SAS and SATA	and SATA. emory,	
	Two external 5.25" flex bays for flex module, optical drives, or optional disk							
Drive Bays				. Each	3.5	bay can support dual drive	es on	
	selected mode							Expansion
						3TB/4TB, 1TB/2TB hybrid		slots 1-6
	2.5" HDD, 15K S			B/6000		200		(top-down
	2.5" SSD, SAS12Gbs 200GB/400GB/800GB 180GB/240GB/256GB/480GB with OPAL,							
Supporting storage	2.5" SSD, SATA6	6Gbs						
	2.5 SSD, SAFAGGUS 256GB/512GB/1TB without OPAL PCIe SSD, U.2 400GB					Drive B		
	PCIe SSD, M.2		256 (B/5120	GB			HDD 1-4
	PCIe SSD, PCIe	adapte	r 400G	В				
	One flex conne	ector, s	upports	one of	the	following:		Flex bay
Flex connector	 Up to one LS 	I RAII) flex ada	apter fo	or SA	ATA/SAŠ RAID ne 2.5" PCIe SSD		I lex bay
Network interfaces	Integrated one Gigabit Ethernet (Intel i218LM), supports Wake-on-LAN. Optional discrete Ethernet is available							
HD Audio	Realtek ALC66	32 cod	ec					
TPM	TCG 1.2-compliant]	
Power supply	One fixed 490 watts, autosensing, 90%, 80 PLUS Gold qualified. Or one fixed 650 watts, autosensing, 92%, 80 PLUS Platinum qualified							

Components	Specification						
Front ports	Four USB 3.0 (one Diagnostic, one Always On), one combo audio/microphone jack (3.5mm)						
Rear ports	Four USB 2.0, four USB 3.0, one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in), two PS/2						
Add-on 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. Two rear USB 3.0 per PCIe adapter, up to three adapters per system. One rear Thunderbolt via PCIe adapter. One front eSATA (on flex module), or one rear eSATA via cable (also needs one PCIe slot), up to one eSATA port per system. One internal USB 3.0 port via cable, cannot be intermixed with 29-in-1 reader						
Media reader	9-in-1 USB 2.0 or 29-in-1 USB 3.0 card reader						
Mechanical	 36-liter: 175mm/6.89" W x 470mm/18.5" D x 440mm/17.32" H (with feet) Tool-less parts: all except CPU fansink 48.94 lb (22.2kg) max configuration 						
Environmental specification	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)					
	Temperature - non operating (no package)	14 °F to 140 °F (-10 °C to 60 °C)					
	Temperature - non operating (with package)	-40 °F to 140 °F (-40 °C to 60 °C)					
	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
	Humidity - operating	10%~80%, non-condensing					
	Humidity - storage (with package)	10%~90%, non-condensing					
	RoHS-compliant, GREENGUARD on all models. EPEAT Gold rating, ENERGY STAR 6.1 qualified on selected models.						
Base warranty	3-year limited onsite service with	9x5/NBD					



Expansion slots

Slot 1:PCle 3.0 x4, Half length, full height Slot 2:PCle 3.0 x16, Full length, full height Slot 3:PCle 2.0 x1, Full length, full height Slot 4:PCle 3.0 x16, Full length, full height Slot 5:PCI, Full length, full height Slot 6:PCle 2.0 x4, Half length, full height

Drive Bays

HDD 1-4: Standard 3.5" HDD bay, up to four 3.5" or 2.5" disk drives.

On selected models, each 3.5" bay can supports 2.5" (9mm or less) drive plus 3.5"drive, or

Flex bay: Two 5.25" flex bays, for HH optical drives.

Or up to one optional flex module (Flex module supports one or more of the following options: 9.5mm optical/29-in-1 USB 3.0 reader/front IEEE 1394/front eSATA).

Or up to two HDD bays for two drives, 3.5" or 2.5" each, SATA only.