ThinkStation P910 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification						Components Specification		
Chipset	Intel C612 Platform Controller Hub (PCH)							Two flex connectors (see right), one per processor. Supports one of the following:	
System mgmt	Intel Oct 2 Platom Contoller Hub (FCH)							 Up to one LSI RAID flex adapter for SATA/SAS RAID. 	
System mymi	Up to two 160W Intel Xeon E5-2600 v4 family processors. Each processor						Flex connector	 Up to two Multi-I/O adapters for four PCIe SSD (two PCIe SSD per adapter). Up to two M.2 flex adapters for four M.2 PCIe SSD (two M.2 PCIe SSD per 	
Processor	supports up to 22 cores up to 2.2GHz, 16 cores up to 2.6GHz, 14 cores up to								
	2.6GHz, 12 cores up to 3GHz, 10 cores up to 2.4GHz, 8 cores up to 3.2GHz,							adapter)	
	6 cores up to 3.4GHz, 4 cores up to 3.5GHz.						Network	Integrated two-port gigabit ethernet (Intel i218LM and i210AT), supports Wake-	
	Or up to two Intel Xeon E5-2620 v3 or E5-2609 v3 processors (not available in						interfaces	on-LAN. Optional discrete ethernet adapters are available	
	EMEA)					not available in	HD Audio	Realtek ALC662 codec	
	Optional. Up to one Intel Xeon Phi Coprocessor 3120A, PCIe 2.0 x16 adapter, 57						TPM	TCG 1.2-compliant	
Coprocessor	cores, 1.1GHz, 28.5MB L2 cache, 6GB memory, 300W							One fixed 1300 watts autosensing 92% PSU 80 PLUS Platinum qualified	
Memory DIMM	16 DIMM sockets (8 DIMMs per processor), 8-channel capable (4-channel per					(4-channel per	Power supply	One fixed 1300 watts, autosensing, 92% PSU, 80 PLUS Platinum qualified Note: PSU will automatically operate in 1120W (restricted mode) if the system line input is 100-110V. For other supported system line input voltages, the PSU will operate at the full 1300W.	
slots	processor). RDIMM or LRDIMM (cannot be intermixed), ECC, DDR4, 2400MHz							For other supported system line input voltages, the PSU will operate at the full 1300W.	
	ty 896GB (LRDIMM, 14x64GB)/512GB (RDIMM, 16x32GB), 2nd CPU is needed						Front ports	Four USB 3.0 (one Diagnostic, one Always On),	
Graphics and GPU computing	Four PCIe 3.0 x16 slots for graphics and GPU computing cards,							one combo audio/microphone jack (3.5mm)	
	two slots per processor					,	Rear ports	Four USB 2.0, four USB 3.0 (blue), one serial (9-pin), two ethernet (RJ-45),	
	Installed CPU Maximum quantity of PCIe x16 adapters per system (by power)							three analog audio ports (line-in, line-out, mic-in), two PS/2	
								Supports the following optional ports:	
1 0	1 1x300W+1x75W or 2x150W 2 2x300W+2x75W, or 1x300W+2x150W+1x75W, or 4x150W							Two IEEE 1394 (one on rear and one on front flex module) via PCIe adpater, up	
	2 2x300W+2x75W, or 1x300W+2x150W+1x75W, or 4x150W							to one adapter per system.	
	Adapter	Cores	Memory	Power	Connector***	SLI	Add-on ports	Two rear USB 3.0 per USB add-on PCIe adapter, up to 3 adapters per system.	
	NVS 310	48	1GB	19.5W	2xDP			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	
Supporting Graphics and GPU computing	NVS 315	48	1GB	19.5W	2xDVI-I SL/2xDP				
	NVS 510	192	2GB	35W	4xmini DP				
	NVS 810	1024	4GB	68W	8xmini DP		Media reader	9-in-1 USB 2.0 card reader. Optional 29-in-1 USB 3.0 card reader on flex modul	
	Quadro K420	192	2GB	41W	DVI-I DL+DP		iviedia reader		
	Quadro K620	384	2GB	45W	DVI-I DL+DP		Mechanical	• 55-liter: 200mm/7.87" W x 620mm/24.4" D x 446mm/17.56" H (with feet)	
	Quadro K1200	512	4GB	45W	4xmini DP			Tool-less parts: all except CPU fansink Tool-less parts: all except CPU fansink	
	Quadro K2200	640	4GB	68W	DVI-I DL+2xDP			• 71.3 lb (32.3kg) max configuration	
	Quadro K4200	1344	4GB	108W	DVI-I DL+2xDP		Environmental specification	Temperature - operating 50 °F to 95 °F (10 °C to 35 °C)	
	Quadro K5200	2304	8GB	150W	DVI-I DL+DVI-D DL+2xDP	SLI		Temperature - non operating (no package) 14 ° F to 140 ° F (-10 ° C to 60 ° C)	
	Quadro M2000	768	4GB	75W	4xDP			Temperature - non operating (with package) -40 °F to 140 °F (-40 °C to 60 °C)	
	Quadro M4000	1664	8GB	120W	4xDP	011		Altitude - operating (Unpressurized): 0-10000ft (0-3048m)	
	Quadro M5000	2048	8GB	150W	DVI-I DL+4xDP	SLI		Humidity - operating 10%~80%, non-condensing	
	Quadro M6000	3072	24GB	250W	DVI-I DL+4xDP	SLI		Humidity - storage (with package) 10%~90%, non-condensing	
	Quadro P400 Quadro P600	256	2GB 2GB	30W	3xminiDP			Balls compliant CREENCLIARD on all models EREAT Cold rating ENERCY STAR 6.1	
	Quadro P600 Quadro P1000	384 640	2GB 4GB	40W 47W	4xminiDP 4xminiDP			RoHS-compliant, GREENGUARD on all models. EPEAT Gold rating, ENERGY STAR 6.1 qualified on selected models.	
	Quadro P1000 Quadro P2000	1024	5GB	75W	4xmmDP 4xDP		Base warranty	3-year limited onsite service with 9x5/NBD	
	Quadro P2000 Quadro P4000	1792	8GB	105W	4xDF 4xDP	SLI	ISV certifications	,	
	Quadro P5000	2560	16GB	180W	DVI-D DL+4xDP	SLI			
	Quadro P6000	3840	24GB	250W	DVI-D DL+4xDP	SLI	Expansion slots 6	6-8 (top-down) Expansion slots	
	Tesla K40	2880		235W	BUBBELIKBI			Slot 1: PCle 3.0 x16, full length, full height,	
Disk drive controller Drive Bays	RAID 0, 1, 5, 10 with onboard SATA controller in chipset, 6Gb/s SATA. RAID 0, 1, 5, 10 with optional LSI RAID flex adapter, 12Gb/s SAS and SATA.					SATA		HDD 4 HDD 3 Slot 2: PCle 2.0 x1, full length, full height (half length if flex connector 1 is used)	
	RAID 0, 1, 5, 6, 10 with optional LSI 9364-8i PCIe adapter, 1GB memory,					8 memory.	The Bernard St	Slot 3: PCle 3.0 x16, full length full height	
	12Gb/s SAS and SATA							Flex Clet 4: DCla 0.0 x1 full length full height	
	Three external 5.25" bays, four internal 3.5" dual drives bays (see right)					ee right)		Slot 5: PCIe 2.0 x4, Half length, full height	
Flex bay					es, Front Access Storage E			Flex Slot 6: PCIe 3.0 x16, full length, full height, CPU2 need	
	Flex Bay Storage Enclosure drives, or flex module.							connector 1 (half length if flex connector 2 is used)	
	 Up to three half-height optical drives or up to one 9.5mm optical drive, 							Slot 7: PCle 3.0 x16, full length, full height, CPU2 need	
	DVD-ROM, DVD±RW, or Blu-Ray burner							HDD 2 (half length if flex connector 2 is used)	
	 Up to one Front Access Storage Enclosure for one 3.5" or 2.5" SATA drive. 							HDD 1 Slot 8: PCIe 2.0 x4, full length, full height, CPU2 need	
	 Up to two Flex Bay Storage Enclosure for two 3.5" or 2.5" SATA drives. 					TA drives.		Also supports up to two flex connectors. Flex connector	
Supporting storage	3.5" SATA HDD, 7.2K 6Gbs 500GB/1TB/2TB/3TB/4TB/6TB/1TB hybrid/2TB hybrid							needs 2nd CPU	
	2.5" SAS HDD, 15K 12Gbs 300GB/600GB						Expansion slo	lots 1-5 (top-down)	
	2.5" SAS HDD, 10K 12Gbs 300GB								
	2.5" SAS SSD, 12Gbs			200GB/400GB/800GB			Drive bays	lard 3.5" HDD bay, up to four 3.5" or 2.5" disk drives	
	2 5" SSD SATAGONS			180GB/240GB/256GB/480GB/512GB with OPAL,			HDD 1-4: Standard 3.5" HDD bay, up to four 3.5" or 2.5" disk drives. Each 3.5" bay supports 2.5" (9mm or less) drive plus 3.5" drive, or two 2.5" (15mm or less) drives. More than 4 drives requires LSI RAID flex adapter or 9364-8i adapter.		
	2.5 SSD, SATAOGDS			256GB/512GB/1TB without OPAL					
	PCIe SSD, 2.5"			400GB 256 GB/512GB/1TB					
	DCIA COD MAA		PCIe SSD, M.2 256 GB/512GB/1TB PCIe SSD adapter 400GB (up to 4 per system, 2nd CPU is needed)				Flex pav. Three	2.2.2. IIEX DAVS, IOF THE ODIICALOTIVES.	
	PCIe SSD, M.2 PCIe SSD adap	tor				needed)	Or up	5.25" flex bays, for HH optical drives. to one optional flex module (Flex module supports one or more of the following	

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