## ThinkStation P910 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification			Components	Specification			
Chipset	Intel C612 Platform Controller Hub (PCH)				<ul> <li>Up to two M.2 flex adapters for four M.2 PCIe SSD (two M.2 PCIe SSD per</li> </ul>			
System mgmt	Intel Active Management Technology 9			Flex connector				
Processor	Up to two 160W Intel Xeon E5-2600 v4 family processors, or up to two Intel Xeon E5-2620 v3 or E5-2609 v3 processors:							
								E5-2699 v4 22C/2.2GHz/55MB/145W/DDR4-2400
	E5-2697A v4 16C/2.6GHz/40MB/145W/DDR4-2400				Network	Integrated two-port gigabit ethernet (Intel i218LM and i210AT), supports Wake- on-LAN. Optional discrete ethernet adapters are available		
	E5-2690 v4							
	E5-2687W v4 12C/3GHz/30MB/160W/DDR4-2400				HD Audio	Realtek ALC662 codec		
	E5-2680 v4 14C/2.4GHz/35MB/120W/DDR4-2400		_	TPM	TCG 1.2-compliant		au califica al	
	E5-2667 v4			_	Power supply	One fixed 1300 watts, autosens	ING, 92% PSU, 80 PLUS Platinum	qualified
	E5-2660 v4	E5-2658 v4 14C/2/GHZ/35MB/105W/DDR4-2400		-	· •···· •upp.y	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.		
	E5-2650 v4 12C/2.3GHZ/35MB/105W/DDR4-2400 E5-2650 v4 12C/2.2GHz/30MB/105W/DDR4-2400		_	Front ports	Four USB 3.0 (one Diagnostic, one Always On),			
	E5-2643 v4 6C/3.4GHz/20MB/135W/DDR4-2400					one combo audio/microphone jack (3.5mm)		
		E5-2640 v4 10C/2.4GHz/25MB/90W/DDR4-2133			Rear ports	Four USB 2.0, four USB 3.0 (blue), one serial (9-pin), two ethernet (RJ-45),		
	E5-2637 v4			-		three analog audio ports (line-in, line-out, mic-in), two PS/2		
	E5-2630 v4	2630 v4 10C/2.2GHz/25MB/85W/DDR4-2133			Media reader	9-in-1 USB 2.0 card reader. Optional 29-in-1 USB 3.0 card reader on flex module		
	E5-2623 v4	523 v4 4C/2.6GHz/10MB/85W/DDR4-2133			IEEE 1394	Optional. Up to one 6-pin port on rear, one 6-pin port on flex module		
	E5-2620 v4				Thunderbolt	Optional. Up to one port on rear, or two ports on flex module		
		E5-2609 v4         8C/1.7GHz/20MB/85W/DDR4-1866           E5-2603 v4         6C/1.7GHz/15MB/85W/DDR4-1866				<ul> <li>55-liter: 200mm/7.87" W x 620mm/24.4" D x 446mm/17.56" H (with feet)</li> </ul>		
					Mechanical	<ul> <li>Tool-less parts: all except CPU fansink</li> </ul>		
	E5-2620 v3 6C/2.4GHz/15MB/85W/DDR4-1866				71.3 lb (32.3kg) max configuration			
	E5-2609 v3	6C/1.9GHz/15MB/85W/DDF			_	Temperature - operating	50 ° F to 95 ° F (10 ° C to 35 ° C)	
	Coprocessor Memory DIMM slots Memory capacity	Optional. Up to one Intel Xeon Phi Coprocessor 3120A, PCIe 2.0 x16 adapter, 5				Temperature - non operating (no package	) 14 ° F to 140 ° F (-10 ° C to 60 ° C)	
		cores, 1.1GHz, 28.5MB L2 cache, 6GB memory, 300W			Environmental	Temperature - non operating (with packag	e) -40 °F to 140 °F (-40 °C to 60 °C)	
16 DIMM sock		16 DIMM sockets (8 DIMMs per processor), 8-channel capable (4-channel per				Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)	
processor). RDIMM or LRDIMM (cannot be intermixed), ECC, DDR4, 2400MHz			specification	Humidity - operating	10%~80%, non-condensing			
896GB (LRDIMM, 14x64GB)/512GB (RDIMM, 16x32GB), 2nd CPU is needed				Humidity - storage (with package)	10%~90%, non-condensing			
Graphics and GPU computing	Four PCIe 3.0 x16 slots for graphics and GPU computing cards, two slots per processor							
					RoHS-compliant, GREENGUARD on all models. EPEAT Gold rating, ENERGY STAR 6.1 qualified on selected models. 3-year limited onsite service with 9x5/NBD			
	Installed CPU Maximum quantity of PCIe x16 adapters per system (by power)			Base warranty				
	1 1x300W+1x75W or 2x150W 2 2x300W+2x75W, or 1x300W+2x150W+1x75W, or 4x150W			Expansion slots 6				
	2	2x30000+2x7500, 01 1x30000+2x15	000+127300, 01 4215000				Expansion slots	
Supporting Graphics and GPU computing	Adapter Cores Memory Power SLI Connector***					Slot 1: PCIe 3.0 x16, full length, full he		
	NVS 310 48 1GB 19.5W 2xDP			HDD 3 Slot 2: PCle 2.0 x1, full length, full height				
	NVS 315	NVS 510 192 2GB 35W 4xmini DP				(half length if flex connector 1 is used)		
					Flex Slot 3: PCle 3.0 x16, full length, full height connector 2 Slot 4: PCle 2.0 x1, full length, full height			
	NVS 810	NVS 810         1024         4GB         68W         8xmini DP           Quadro K420         192         2GB         41W         DVI-I DL+DP           Quadro K620         384         2GB         45W         DVI-I DL+DP						
							Slot 5: PCIe 2.0 x4, Half length, full h Slot 6: PCIe 3.0 x16, full length, full he	
	Quadro K020         364         2GB         45W         DVI-I DL-DF           Quadro K1200         512         4GB         45W         4xmini DP           Quadro K2200         640         4GB         68W         DVI-I DL+2xDP           Quadro K4200         1344         4GB         108W         DVI-I DL+2xDP					connector 1 (half length if flex connector 2 is used)		
					Slot 7: PCle 3.0 x16, full length, full height, CPU2 nee			
				HDD 2 (half length if flex connector 2 is used)				
	Quadro K5200	Quadro K5200 2304 8GB 150W SLI DVI-I DL+DVI-D DL+2xDP				HDD 1 Slot 8: PCIe 2.0 x4, full length, full height, CPU		
	Quadro M2000					0.0	Also supports up to two flex connectors	. Flex connector 2
	Quadro M4000	1664 8GB 120W	4xDP			r	needs 2nd CPU	
	Quadro M5000				Expansion slots 1-5 (top-down)			
	Quadro M6000	3072 24GB 250W SLI	DVI-I DL+4xDP					
	Tesla K40				Drive bays HDD 1-4: Standard 3.5" HDD bay, up to four 3.5" or 2.5" disk drives.			
Disk drive controller	RAID 0, 1, 5, 1	RAID 0, 1, 5, 10 with onboard SATA controller in chipset, 6Gb/s SATA.			Fach ?	5" hav supports 2 5" (9mm or lea	ss) drive plus 3.5" drive, or two 2.5	5" (15mm or les
	<b>RAID 0, 1, 5, 10</b> with optional LSI RAID flex adapter, 12Gb/s SAS and SATA.			drives	More than 4 drives requires I SI	RAID flex adapter or 9364-8i adap	ter.	
	<b>RAID 0, 1, 5, 6, 10</b> with optional LSI 9364-8i PCle adapter, 1GB memory,			Flex bay: Three 5.25" flex bays, for HH optical drives.				
	optional 1GB flash with super capacitor, 12Gb/s SAS and SATA				Orup	to one optional flex module (Flex)	module supports one or more of t	ne following
Drive Bays	Three external 5.25" bays, four internal 3.5" dual drives bays (see right)				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			
Supporting storage	3.5" SATA HDD, 7.2K 6Gbs 500GB/1TB/2TB/3TB/4TB/1TB hybrid/2TB hybrid							
	2.5" SAS HDD, 15K 12Gbs 300GB/600GB				· · ·			
	2.5" SAS SSD, 12Gbs 200GB/400GB/800GB							
	2.5" SATA SSD, 6Gbs 180GB/240GB/256GB/480GB/512GB/1TB, optional OPAL			For the latest list of ISV certifications, please visit <u>www.lenovo.com/support/ISV</u> For a list of all supported options, please visit <u>https://download.lenovo.com/pccbbs/options_iso/ocm_may_2016.xlsx</u> sheet				
	PCIe SSD, 2.5"         400GB           PCIe SSD, M.2         256 GB/512GB							
	PCIe SSD, M.2         256 GB/512GB           PCIe SSD adapter         400GB							
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