

# ThinkStation P710 Platform Specifications

Components	Specification																																																																																																																																										
Chipset	Intel C612 Platform Controller Hub (PCH)																																																																																																																																										
System mgmt	Intel Active Management Technology 9																																																																																																																																										
Processor	Up to two 145W <b>Intel Xeon E5-2600 v4</b> family processors. Each 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 2.2GHz, 10 cores up to 2.4GHz, 8 cores up to 3.2GHz, 6 cores up to 3.4GHz, 4 cores up to 3.5GHz. Or up to two Intel Xeon E5-2620 v3 or E5-2609 v3 processors (not available in EMEA)																																																																																																																																										
Coprocessor	None																																																																																																																																										
Memory DIMM slots	12 DIMM sockets (6 DIMMs per processor), 8-channel capable (4-channel per processor). RDIMM, ECC, DDR4-2400																																																																																																																																										
Memory capacity	384GB, 2nd CPU is needed																																																																																																																																										
Graphics, GPU computing	Three PCIe 3.0 x16 slots, two via CPU1, one via CPU2. Up to three graphics and GPU computing adapters, 2nd CPU is needed																																																																																																																																										
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Disk drive controller	<b>RAID 0, 1, 5, 10</b> with onboard SATA controller in chipset, SATA 6Gb/s. <b>RAID 0, 1, 5, 10</b> with optional LSI RAID flex adapter, 12Gb/s SAS and SATA. <b>RAID 0, 1, 5, 6, 10</b> with optional LSI 9364-8i PCIe adapter, 1GB memory, 12Gb/s SAS and SATA																																																																																																																																										
Drive Bays	Two external 5.25" flex bays, four 3.5" internal bays. Each 3.5" bay can support dual drives on selected models (see right)																																																																																																																																										
Flex bay	Two 5.25" flex bays for optical drives, Front Access Storage Enclosure drives, Flex Bay Storage Enclosure drives, or flex module. • Up to two half-height optical drives or up to one 9.5mm optical drive, DVD-ROM, DVD±RW, or Blu-Ray burner • Up to one Front Access Storage Enclosure for one 3.5" or 2.5" SATA drive. • Up to two Flex Bay Storage Enclosure for two 3.5" or 2.5" SATA drives.																																																																																																																																										
Supporting storage	3.5" SATA HDD, 7.2K 6Gbs	500GB/1TB/2TB/3TB/4TB/6TB/1TB hybrid/2TB hybrid																																																																																																																																									
	2.5" SAS HDD, 15K 12Gbs	300GB/600GB																																																																																																																																									
	2.5" SAS SSD, 12Gbs	200GB/400GB/800GB																																																																																																																																									
	2.5" SAS HDD, 10K 12Gbs	300GB																																																																																																																																									
	2.5" SSD, SATA6Gbs	180GB/240GB/256GB/480GB/512GB with OPAL, 256GB/512GB/1TB without OPAL																																																																																																																																									
	PCIe SSD, 2.5"	400GB																																																																																																																																									
	PCIe SSD, M.2	256 GB/512GB/1TB																																																																																																																																									
PCIe SSD adapter	400GB (up to 4 per system, 2nd CPU is needed)																																																																																																																																										

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Flex connector	One flex connectors (see right), supports one of the following: • Up to one LSI RAID flex adapter for SATA/SAS RAID • Up to one Multi-I/O flex adapters for two PCIe SSD • Up to one M.2 flex adapters for two M.2 PCIe SSD	
Network interfaces	Integrated two-port gigabit ethernet (Intel i218LM and i210AT), supports Wake-on-LAN. Optional discrete ethernet adapters are available	
HD Audio	Realtek ALC662 codec	
TPM	TCG 1.2-compliant	
Power supply	One fixed 650 watts or 850 watts, autosensing, 92%, 80 PLUS Platinum qualified	
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 (blue), one serial (9-pin), two 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 adapter, 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 card reader. Optional 29-in-1 USB 3.0 card reader on flex module
Mechanical	• 36-liter: 175mm/6.89" W x 485mm/19.1" D x 446mm/17.6" H (with feet) • Tool-less parts: all except CPU fansink • 52.25 lb (23.7kg) max configuration	
	Environmental specification	Temperature - operating
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	
ISV certifications	Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>	

**Expansion slots**  
Slot 1: PCIe 3.0 x16, half length, full height, CPU2 needed (full length, full height if no flex adapter)  
Slot 2: PCIe 3.0 x16, full length, full height  
Slot 3: PCIe 3.0 x8, full length, full height, CPU2 needed  
Slot 4: PCIe 3.0 x16, full length, full height  
Slot 5: PCI, full length, full height  
Slot 6: PCIe 2.0 x4, half length, full height  
Also supports one flex connector

**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 two 2.5" (15mm or less) drives.  
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.