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 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
E5-2690 v4	14C/2.6GHz/35MB/135W/DDR4-2400
E5-2680 v4	14C/2.4GHz/35MB/120W/DDR4-2400
E5-2667 v4	8C/3.2GHz/25MB/135W/DDR4-2400
E5-2660 v4	14C/2GHz/35MB/105W/DDR4-2400
E5-2658 v4	14C/2.3GHz/35MB/105W/DDR4-2400
E5-2650 v4	12C/2.2GHz/30MB/105W/DDR4-2400
E5-2643 v4	6C/3.4GHz/20MB/135W/DDR4-2400
E5-2640 v4	10C/2.4GHz/25MB/90W/DDR4-2133
E5-2637 v4	4C/3.5GHz/15MB/135W/DDR4-2400
E5-2630 v4	10C/2.2GHz/25MB/85W/DDR4-2133
E5-2623 v4	4C/2.6GHz/10MB/85W/DDR4-2133
E5-2620 v4	8C/2.1GHz/20MB/85W/DDR4-2133
E5-2609 v4	8C/1.7GHz/20MB/85W/DDR4-1866
E5-2603 v4	6C/1.7GHz/15MB/85W/DDR4-1866
E5-2620 v3	6C/2.4GHz/15MB/85W/DDR4-1866
E5-2609 v3	6C/1.9GHz/15MB/85W/DDR4-1600

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

PSU	Maximum quantity of PCIe x16 adapters per system (by power)
650W	1x150W+2x75W with onboard SATA controller and up to two 120W CPU each
850W	1x300W+2x75W (up to two 120W CPU each), or 2x150W+1x75W

Supporting Graphics and GPU computing

Adapter	Cores	Memory	Power	SLI	Connector***
NVS 310	48	1GB	19.5W		2xDP
NVS 315	48	1GB	19.5W		2xDVI-I SL/2xDP
NVS 510	192	2GB	35W		4xmini DP
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
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
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
Quadro M5000	2048	8GB	150W	SLI	DVI-I DL+4xDP
Quadro M6000	3072	24GB	250W		DVI-I DL+4xDP
Tesla K40	2880	12GB	235W		

Disk drive controller	**RAID 0, 1, 5, 10** with onboard SATA controller in chipset, SATA 6Gb/s. **RAID 0, 1, 5, 10** with optional LSI RAID flex adapter, 12Gb/s SAS and SATA. **RAID 0, 1, 5, 6, 10** with optional LSI 9364-8i PCIe adapter, 1GB memory, optional 1GB flash with super capacitor, 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)

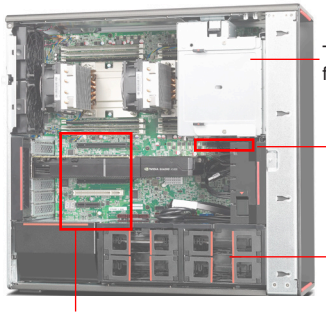
Supporting storage

3.5" SATA HDD, 7.2K 6Gbs	500GB/1TB/2TB/3TB/4TB/1TB 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
PCIe SSD, 2.5"	400GB
PCIe SSD, M.2	256 GB/512GB
PCIe SSD adapter	400GB (up to 4 per system)

Components	Specification
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
Media reader	9-in-1 USB 2.0 card reader. Optional 29-in-1 USB 3.0 card reader on flex module
IEEE 1394	Optional. Up to one 6-pin port on rear, one 6-pin port on flex module
Thunderbolt	Optional. Up to one port on rear, or two ports on flex module
Mechanical	• 36-liter: 175mm/6.89" W x 485mm/17.6" D x 446mm/17.6" H (with feet) • Tool-less parts: all except CPU fansink • 52.25 lb (23.7kg) max configuration
Environmental specification	(see below)
Base warranty	3-year limited onsite service with 9x5/NBD

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.



Expansion slots 1-6 (top-down)

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

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