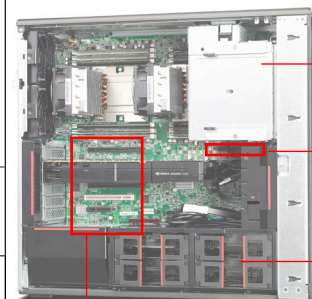


# ThinkStation P710 Platform Specifications

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																																																																																																
	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	<table border="1"> <thead> <tr> <th>Adapter</th> <th>Cores</th> <th>Memory</th> <th>Power</th> <th>SLI</th> <th>Connector***</th> </tr> </thead> <tbody> <tr> <td>NVS 310</td> <td>48</td> <td>1GB</td> <td>19.5W</td> <td></td> <td>2xDP</td> </tr> <tr> <td>NVS 315</td> <td>48</td> <td>1GB</td> <td>19.5W</td> <td></td> <td>2xDVI-I SL/2xDP</td> </tr> <tr> <td>NVS 510</td> <td>192</td> <td>2GB</td> <td>35W</td> <td></td> <td>4xmini DP</td> </tr> <tr> <td>NVS 810</td> <td>1024</td> <td>4GB</td> <td>68W</td> <td></td> <td>8xmini DP</td> </tr> <tr> <td>Quadro K420</td> <td>192</td> <td>2GB</td> <td>41W</td> <td></td> <td>DVI-I DL+DP</td> </tr> <tr> <td>Quadro K620</td> <td>384</td> <td>2GB</td> <td>45W</td> <td></td> <td>DVI-I DL+DP</td> </tr> <tr> <td>Quadro K1200</td> <td>512</td> <td>4GB</td> <td>45W</td> <td></td> <td>4xmini DP</td> </tr> <tr> <td>Quadro K2200</td> <td>640</td> <td>4GB</td> <td>68W</td> <td></td> <td>DVI-I DL+2xDP</td> </tr> <tr> <td>Quadro K4200</td> <td>1344</td> <td>4GB</td> <td>108W</td> <td></td> <td>DVI-I DL+2xDP</td> </tr> <tr> <td>Quadro K5200</td> <td>2304</td> <td>8GB</td> <td>150W</td> <td>SLI</td> <td>DVI-I DL+DVI-D DL+2xDP</td> </tr> <tr> <td>Quadro M2000</td> <td>768</td> <td>4GB</td> <td>75W</td> <td></td> <td>4xDP</td> </tr> <tr> <td>Quadro M4000</td> <td>1664</td> <td>8GB</td> <td>120W</td> <td></td> <td>4xDP</td> </tr> <tr> <td>Quadro M5000</td> <td>2048</td> <td>8GB</td> <td>150W</td> <td>SLI</td> <td>DVI-I DL+4xDP</td> </tr> <tr> <td>Quadro M6000</td> <td>3072</td> <td>24GB</td> <td>250W</td> <td></td> <td>DVI-I DL+4xDP</td> </tr> <tr> <td>Tesla K40</td> <td>2880</td> <td>12GB</td> <td>235W</td> <td></td> <td></td> </tr> </tbody> </table>	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		
	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	<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)																																																																																																
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)																																																																																															
Flex connector	One flex connectors (see right), supports one of the following: <ul style="list-style-type: none"> <li>Up to one LSI RAID flex adapter for SATA/SAS RAID</li> <li>Up to one Multi-I/O flex adapters for two PCIe SSD</li> <li>Up to one M.2 flex adapters for two M.2 PCIe SSD</li> </ul>																																																																																																
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																																																																																																

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 (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	<ul style="list-style-type: none"> <li>36-liter: 175mm/6.89" W x 485mm/19.1" D x 446mm/17.6" H (with feet)</li> <li>Tool-less parts: all except CPU fansink</li> <li>52.25 lb (23.7kg) max configuration</li> </ul>												
	Environmental specification	<table border="1"> <tbody> <tr> <td>Temperature - operating</td> <td>50 °F to 95 °F (10 °C to 35 °C)</td> </tr> <tr> <td>Temperature - non operating (no package)</td> <td>14 °F to 140 °F (-10 °C to 60 °C)</td> </tr> <tr> <td>Temperature - non operating (with package)</td> <td>-40 °F to 140 °F (-40 °C to 60 °C)</td> </tr> <tr> <td>Altitude - operating</td> <td>(Unpressurized): 0-10000ft (0-3048m)</td> </tr> <tr> <td>Humidity - operating</td> <td>10%-80%, non-condensing</td> </tr> <tr> <td>Humidity - storage (with package)</td> <td>10%-90%, non-condensing</td> </tr> </tbody> </table> <p>RoHS-compliant, GREENGUARD on all models. EPEAT Gold rating, ENERGY STAR 6.1 qualified on selected models.</p>	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)
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												
Base warranty	3-year limited onsite service with 9x5/NBD												



Expansion slots 1-6 (top-down)

### 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.

### 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

For the list of ISV certifications, please visit [www.thinkworkstations.com/isv-certifications/](http://www.thinkworkstations.com/isv-certifications/)  
For a list of all supported options, please visit [https://download.lenovo.com/pccbbs/options\\_iso/ocm\\_july\\_2016.xlsx](https://download.lenovo.com/pccbbs/options_iso/ocm_july_2016.xlsx) sheet

<b>Model</b>	<b>30B70006++</b>
Product	ThinkStation P710
Region	EMEA
Machine Type	30B7
TopSeller	TopSeller
Processor	1xXeon E5-2620 v4 8C/2.1GHz/ 20MB/85W/DDR4-2133
Graphics	Open
Memory	4x8GB RDIMM DDR4-2400 ECC
RAID Controller	Onboard
Max Drives in 3.5" Bays	4
Storage	1x512GB SSD M.2 PCIe
Optical	HH DVD±RW
Media Reader	9-in-1
Power Supply	650W 92%
Add-on Ports	None
Keyboard / Mouse	USB / USB Optical
Operating System	Windows 10 Pro 64
Warranty	3-year
Global	No
Ann Date (mm/yy)	04/16