## ThinkStation P720 Platform Specifications

Components	Specification						Components	Specification
Form factor	36L Tower							Up to four internal 3.5" drive bays. Two standard, two optional. Each bay
Dimensions	175mm/6.89" W x 485mm/19.1" D x 446mm/17.6" H (with feet)						Disk drive bays	supports one 3.5" or 2.5" disk.
Weight	Maximum configuration: 52.25 lb (23.7kg)							Selected models supports four internal 3.5" dual drive bays, each bay
Processor	Up to two 150W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or							supports one 3.5" HDD plus one 2.5" SATA SSD, or two 2.5" SATA SSD. Supports up to four 2.5" U.2 SSD on selected models.
	Platinum. Up to 26 cores at 2.0GHz, up to 3.6GHz with 4 cores. Two processors are							Up to two 2.5" or 3.5" SATA disk drives on 5.25" flex bays via one 5.25" Front
	connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s							Access Storage Enclosure plus one 5.25" slim ODD and HDD cage
Chipset	Intel C621 Chipset							Access Storage Enclosure plus one 5.25" slim ODD and HDD cage Up to 9 x M.2 PCIe NVMe SSD:
Memory	Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6							Two onboard M.2 slots.
Mamaru aanaaitu	channels. RDIMMs. DDR4-2666 Up to 384GB with 12 x 32GB RDIMMs and two processors						_ M.2 slots	• Up to one full height, full length PCle 3.0 x16 adapter with four M.2 slots.
Memory capacity Memory protection							-	• Up to three PCle 3.0 x4 adapters, each adapter supports one M.2 slot Note: Supports RAID 0/1 on onboard M.2 disks and RAID 0/1/10/5 on quad M.2 PCle x16 adapter,
	Slot 1 (CPU2) PCIe 3.0 x16, full height, full length, 75W						-	NVMe RAID upgrade is needed  HDD 7.2K 3.5" SATA6Gbps   1TB/2TB/4TB/6TB
	Slot 2 (CPU1) PCIe 3.0 x16, full height, full length, 75W, double-width						Internal storage	HDD 7.2K 2.5" SATA6Gbps 500GB FIPS
	Slot 3 (CPU1) PCIe 3.0 x 16, full height, full length, 75W, double-width							SSD 2.5" SATA6Gbps 256GB Opal/512GB/512GB Opal/1TB Opal/2TB Opal
	Slot 4 (CPU1) PCIe 3.0 x6, full height, full length, 75W, double-width							M.2 PCIe NVMe, PCIe 3.0 x4 256GB Opal/512GB Opal/1TB Opal
	Slot 5 PCI, full height, full length, 25W						Media reader	9-in-1 USB 2.0 card reader on most models. Optional UHS-II 15-in-1 USB 3.0 reader on flex module
	Slot 6 (PCH) PCIe 3.0 x4, full height, half length, 25W, open ended							Integrated two-port gigabit ethernet (Intel i219LM and i210AT), supports
	Up to three PCle 3.0 x16 slots depending on the processors installed (see						Naturali interferes	Wake-
Graphics	Expansion slots section). Up to one NVIDIA Quadro P6000, or up to two Quadro						Network interfaces	on-Lan on both two ports. Optional PCIe ethernet or wireless adapters are
	P5000, Quadro P4000, or NVS 810, other graphics adapters under 75W up to 3,							available
	900W PSU is needed. Supports the following graphics adapters:						Canada da ataura	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant,
	Adapter	Cores	Memory	Power	Connector	SLI	Security features Systems management	switch to 1.2 via UEFI setting. Chassis intrusion switch. Optional access panel lock, Kensington lock, and pad lock
	NVS 310	48	1GB DDR3	19.5W				Intel Active Management Technology 11. Front panel warning LED. ThinkSta-
	NVS 315	48	1GB DDR3	19.3W	2x DVI-I SL, 2x DP			tion Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diag-
	NVS 510 NVS 810	192 1024	2GB DDR3 4GB DDR3	33.4W 68W	4xmini DP 8xmini DP			nostics for Android and iOS. Optional front 4-digit diagnostic display on flex
	Quadro P400	256	2GB GDDR5	30W	3xminiDP		┦	module
	Quadro P600	384	2GB GDDR5	45W	4xminiDP		Base warranty	1 or 3-year limited onsite service with 9x5/NBD
	Quadro P620	512	2GB GDDR5	40W	4x miniDP		HD Audio	Realtek ALC662 codec
	Quadro P1000	640	4GB GDDR5	50W	4xminiDP		Front ports	Four USB 3.0 (includes one 11W charging), one combo audio/microphone jack (3.5mm)
	Quadro P2000 Quadro P4000	1024 1792	5GB GDDR5 8GB GDDR5	75W 120W	4xDP 4xDP		1	Two USB 2.0, four USB 3.0, two ethernet (RJ-45), three analog audio ports
	Quadro P5000	2560	16GB GDDR5X	180W	DVI-D DL+4xDP	SLI	Rear ports	(line-in, line-out, mic-in), two PS/2
	Quadro P6000	3840	24GB GDDR5X	250W	DVI-D DL+4xDP	SLI		Supports the following optional ports:
	Quadro GP100	3584	16GB HBM2	235W	1xDVI-D DL, 4xDP	NVLink		Optional COM port
	Quadro GV100 Tesla M60	5120	32GB HBM2	250W	4xDP	NVLink		• Two USB Type-C ports via PCIe adapter, USB 3.1 gen 2. One 15W, one 5W
	Geforce GTX 1060	4096 1280	16GB GDDR5 6GB GDDR5	300W 120W	DVI-D DL, HDMI, 3x DP		Optional ports	<ul> <li>Two Thunderbolt ports (USB Type-C) on flex module, one of two ports supports video-out.</li> </ul>
	Geforce GTX 1070 1920 8GB GDDR5 150W DVI-D DL, HDMI, 3x DP							One eSATA on flex module
	Geforce GTX 1080	Geforce GTX 1080 2560 8GB GDDR5X 180W DVI-D DL, HDMI, 3x DP						One internal USB 3.0 port
	Radeon Pro WX4100	1024	4GB GDDR5	50W	4x miniDP			One fixed 690W or 900W, autosensing, 92%, 80 PLUS Platinum
	Radeon Pro WX5100	1792	8GB GDDR5	75W	4x DP		Power supply	qualified.900W PSU supports two 6+2-pin aux power connectors. 690W PSU supports one 6+2-pin aux power connector.
	Radeon Pro WX7100   2304   8GB GDDR5   130W   4x DP							Temperature - operating 50 °F to 95 °F (10 °C to 35 °C)
	Notes: Parts in red text are SBO.  Integrated Intel SATA AHCI/RAID controller in chipset, 6Gbps SATA, RAID 0/1/10/5.  Integrated Intel PCIe host in processor for M.2 PCIe NVMe drives, optional						Environmental specification	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)
	RAID 0/1/10 with Intel NVMe RAID upgrade basic, optional RAID 0/1/10/5 with Intel							Altitude - operating (Unpressurized): 0-10000ft (0-3048m)
	NVMe RAID upgrade premium.							Humidity - operating 10%~80%, non-condensing
	Optional Broadcom 9440-8i, PCIe adapter, 12Gbps, SATA/SAS, RAID 0/1/10/5. Or optional Broadcom 9460-16i with 4GB DDR4 memory and SuperCap, PCIe							Humidity - storage (with package) 10%~90%, non-condensing
	adapter, 12Gbps, SATA/SAS, RAID 0/1/10/5/6							RoHS-compliant. GREENGUARD. EPEAT Gold rating and ENERGY STAR
5.25" flex bay	Two 5.25" flex bays, supports the following options:							6.1 qualified on following models:
	Up to two half-height optical drives.							Model   30BA0007US   30BA0008US
	<ul> <li>Up to two 5.25" slim ODD cages, each supports one 9.0mm optical drive.</li> <li>Up to one 5.25" slim ODD and HDD cage for one 9.0mm optical drive plus one 3.5" or 2.5" SATA disk.</li> <li>Up to one Front Access Storage Enclosure for one 3.5" or 2.5" SATA disk</li> <li>Up to one flex module for one or more of the following options: 9.0mm optical/</li> </ul>							Processor 2 x Intel Xeon Silver 4110 2 x Intel Xeon Gold 5122
								Memory 2 x 8GB RDIMM DDR4-2666 ECC 2 x 8GB RDIMM DDR4-2666 ECC
								Disks 2x1TB HDD 7.2K 3.5" SATA6Gbps 2 x 256GB SSD 2.5" SATA6Gbps Opal
								Graphics NVIDIA Quadro P4000 8GB NVIDIA Quadro P4000 8GB Optical HH DVD±RW HH DVD±RW
	15-in-1 USB 3.0 reader/front eSATA/front Thunderbolt/front USB 3.0 Type-C/							PSU 690W 900W
	4-digit diagnostic display							OS Win10 Pro 64 Win10 Pro 64
	Up to two Front Removable Drive Enclosure, supports one M.2 SSD each. Each Front Removable Drive Enclosure comes with a PCIe x4 adapter						ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/
	Note:				·		13 v Certifications	FIEASE VISIT WWW.triitikworkstations.com//ISV-Certifications/
	1. Only one can be supported from 15-in-1 reader, Thunderbolt, and 4-digit display 2. Up to two ports are supported from 1394, eSATA, and USB Type-C							Langua August 2010
	L. Op to two ports are supp	ρυπθα Ι	om 1004, COMIM, AIIC	OUD IY	00-0		_	Lenovo, August 2018