Lenovo

Lenovo ThinkStation P710 Intel® Xeon® E5 v4 E5-2650V4 16 GB DDR4-SDRAM 1.26 TB HDD+SSD NVIDIA® Quadro® M4000 Windows 7 Professional Tower Workstation Black

Brand : Lenovo **Product family:** ThinkStation **Product code:** 30B70024US

Product name : P710

Intel Xeon Processor E5-2650 v4 (30M Cache, 2.20 GHz), 16GB RAM, 1000GB HDD + 256GB SSD, NVIDIA Quadro M4000, Windows 7 Professional 64 + Windows 10 Pro 64
Lenovo ThinkStation P710. Processor frequency: 2.2 GHz, Processor family: Intel® Xeon® E5 v4, Processor model: E5-2650V4. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM, Memory clock speed: 2400 MHz. Total storage capacity: 1.26 TB, Storage media: HDD+SSD, Optical drive type: DVD±RW. Discrete graphics card model: NVIDIA® Quadro® M4000. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 850 W. Chassis type: Tower. Product type: Workstation

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Xeon® E5 v4
Processor model *	E5-2650V4
Processor cores	12
Processor threads	24
Processor boost frequency	2.9 GHz
Processor frequency *	2.2 GHz
Processor socket	LGA 2011-v3
Processor cache	30 MB
Processor cache type	Smart Cache
System bus rate	9.6 GT/s
Bus type	QPI
Processor lithography	14 nm
Processor operating modes	64-bit
Processor series	Intel Xeon E5-2600 v4
Processor codename	Broadwell
Thermal Design Power (TDP)	105 W
Tcase	80 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	40
Number of processors installed	1
Number of QPI links	2
Stepping	M0
Maximum internal memory supported by processor	1.54 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz
Memory bandwidth supported by processor (max)	76.8 GB/s
ECC supported by processor	✔

Memory

Internal memory *	16 GB
Maximum internal memory *	384 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2400 MHz

Design

Chassis type *	Tower
Placement supported	Vertical
Number of 3.5" bays	4
Number of 5.25" bays	2
Product colour *	Black

Performance

Motherboard chipset	Intel® C612
Audio chip	Realtek ALC662
Product type *	Workstation

Software

Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional
Optional operating system supplied	Windows 10 Pro

Processor special features

Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel Flex Memory Access	✘
Intel® Smart Cache	✔
Intel Enhanced Halt State	✔
Intel Demand Based Switching	✔
Processor package size	45 x 52.5 mm
Supported instruction sets	AVX 2.0

Memory

ECC	✔
Memory channels	Quad-channel

Storage

Total storage capacity *	1.26 TB
Storage media *	HDD+SSD
Optical drive type *	DVD±RW
Number of storage drives installed	2
Number of HDDs installed	1
HDD capacity	1 TB
HDD speed	7200 RPM
HDD size	3.5"
Number of SSDs installed	1
SSD capacity	256 GB
Card reader integrated	✔
RAID support	✔

Graphics

Discrete graphics card *	✔
On-board graphics card *	✖
Discrete graphics card model *	NVIDIA® Quadro® M4000
Discrete graphics card memory	8 GB
Number of discrete graphics cards	1
On-board graphics card model *	Not available

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Cabling technology	10/100/1000Base-T(X)
Wi-Fi *	✖

Ports & interfaces

USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	8
DVI port	✖
PS/2 ports quantity	2
Ethernet LAN (RJ-45) ports	2
Microphone in	✔
Headphone outputs	1
Line-out	✔
Line-in	✔
Serial ports quantity	1

Expansion slots

PCI Express x4 (Gen 2.x) slots	1
PCI Express x8 (Gen 3.x) slots	1
PCI Express x16 (Gen 3.x) slots	3
PCI slots	1

Processor special features

Processor code	SR2N3
Scalability	2S
Physical Address Extension (PAE)	✔
Physical Address Extension (PAE)	46 bit
CPU configuration (max)	2
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	0.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel TSX-NI version	1.00
Processor ARK ID	91767
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✖
Conflict-Free processor	✔

Power

Power supply *	850 W

Operational conditions

Operating temperature (T-T)	10 - 35 °C
Storage temperature (T-T)	-10 - 60 °C
Operating relative humidity (H-H)	10 - 80%
Storage relative humidity (H-H)	10 - 90%
Operating altitude	0 - 3048 m

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Gold, ENERGY STAR

Weight & dimensions

Width *	175 mm
Depth *	485 mm
Height *	446 mm
Weight *	23.7 kg

Packaging content

Mouse included	✔
Keyboard included	✔
Manual	✔

Display

Display included *	✖

Other features

Optical drives quantity	1

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