ThinkStation P520

Smarter technology for all

Lenovo



PROFESSIONAL MACHINES FOR ADVANCED USERS



ThinkStation P5 series mainstream workstations offer a wide choice of professional graphics cards along with storage and expansion capabilities.

Our most powerful single-CPU workstation is built around the Intel Xeon® W series processor. The Tri-Channel cooling system separates air between 3 areas inside the machine, improving cooling performance, so you can configure up to 2x NVIDIA Quadro® RTX 4000 or Quadro GP100 graphics cards in this relatively compact 33L device. FLEX Trays - front-mounted storage bays - can accommodate a range of storage, media or connectivity port options.



REASONS TO BUY

Lenovo PC Diagnostics allows your workstation to communicate directly to your mobile device in the event the system will not boot or power on. This application provides instant diagnostics and potential solutions.

Certified or recommended for use with: Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop

Manage complex data analysis workloads with the right configuration of multicore processors and error-free ECC memory.

Updated 2023-03-15

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KEY SPECIFICATIONS

Processor	up to 165W Intel Xeon W processor
Operating System	Powered by Windows 10 Pro for Workstations
Max Graphics	up to 1x NVIDIA Quadro RTX 8000 or Quadro GV100, or 2x NVIDIA Quadro RTX 4000 or Quadro GP 100
Memory	up to 512GB (with 8x 64GB DDR4-2933 RDIMMs)
Max Storage Drives	**Internal storage:** 60TB (6x 10TB 3.5"" SATA HDD) or 12TB (6x 2TB 2.5"" SATA SSD) or 3TB (6x 500GB 2.5"" SATA HDD) or 2.4TB (4x 600GB 2.5"" SAS HDD) **M.2 SSD:** 18TB (9x 2TB M.2 PCIe NVMe SSD - 2 onboard & 7 via PCIe to M.2 adapter) *Overall storage capacity depends on mix of Internal, M.2, PCIe cards and other options installed*
Storage Types Supported	3.5"" SATA HDD 6Gb/s 7.2k RPM up to 10TB 2.5"" SATA HDD 6GB/s 7.2k RPM up to 500GB FIPS 2.5"" SAS HDD 12GB/s 10k RPM up to 600GB 2.5"" SATA SSD 6GB/s up to 2TB M.2 PCIe NVMe SSD up to 2TB Add-in Card: PCIe NVMe SSD up to 480GB RAID 0/1/10/5/6 supported
Storage Controllers	*M.2 SSD Controllers* Integrated NVMe Controller with RAID 0/1/10 Upgrade Integrated NVMe Controller with RAID 0/1/10/5 Upgrade Integrated NVMe Controller, non-RAID Integrated NVMe controller with RAID 0/1/10/5 Upgrade for Intel SSD *HDD Controllers* Onboard Intel RSTe SATA
Optical	optional up to 2x DVD burner drives
Diagnostic Panel	Front 4-Digit Diagnostic LED (optional)
Power Supply	*One of the following* 1000W Platinum Fixed | 690W Platinum Fixed | 900W Platinum Fixed
Dimensions	Width: 165mm (6.5"") Depth: 460mm (18.1"") Height (with feet): 440mm (17.3"")
Weight	Maximum configuration: 24kg (52.91lb)

GREEN CERTIFICATIONS

GREENGUARD. EPEAT Silver rating. ENERGY STAR 6.1 qualified on select models. 80 PLUS Platinum (690W & 900W PSU)

CONNECTIVITY

Front I/O	4x USB 3.1 Gen 1 (includes 1x 11W charging), 1x combo audio/microphone jack (3.5mm)
Rear I/O	2x USB 2.0, 4x USB 3.1 Gen 1, 1x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2
Optional Front Ports	*One of the following* 1x USB-C 3.1 Gen 1 | 1x eSATA
Optional Rear Ports	*One of the following* 1x Serial | 1x Serial + 2x USB-C 3.1 Gen 1 | 1x Thunderbolt 3 | 2x USB-C 3.1 Gen 1
Optional Internal Ports	1x USB 3.0
WLAN + Bluetooth	Intel 8265, 11ac 2x2 + BT4.2, vPro

SECURITY & PRIVACY

Lock Kit with Common Key
Lock Kit with Unique Key
Access Panel Lock (optional)
Kensington lock slot
Padlock slot
TPM 2.0

MANAGEABILITY

Intel vPro with AMT 11

ISV CERTIFICATIONS

ALLPLAN, ANSYS, AVEVA Hull & AVEVA Outfitting, AVEVA PDMS, AVEVA PDMS, E3D, Hull & Outfitting, BOCAD, Adobe After Effects, Adobe Photoshop, Adobe Premiere Pro, Altair HyperWorks, Autodesk Alias, Autodesk AutoCAD, Autodesk Inventor, Autodesk Maya, Autodesk Revit, Autodesk VRED, Avid Media Composer, BarcoMedical Monitors, Bentley MicroStation V8i, CONNECT Edition, LumenRT, DS (CATIA, DELMIA, ENOVIA), DS 3DEXPERIENCE, DS ICEM Surf, DS SOLIDWORKS, Esri ArcGIS Desktop, FujiFilmSynapse, GE Healthcare Centricity Solutions for Enterprise Imaging, PTC Creo, Phillips Enterprise Imaging (IntelliSpacePACS), Sectra Enterprise Imaging, Siemens NX, TcVis, Tecnomatix, Siemens PACS Solutions, Siemens Solid Edge, Vectorworks, Vital EnterpriseImaging

Recommended for this device



NVIDIA Quadro graphics cards

Upgrade your workstation with a range of powerful NVIDIA Quadro graphics cards

Can handle large rendering tasks, visual effects and life-like VR experiences with ease

Fully qualified on ThinkStation machines

On-site Service

If a problem can't be fixed remotely, we will visit your location

Normally next business day service

Agreed appointment times

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