

Professional machines for advanced users

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

ThinkStation P520

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.



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 After Effects, Adobe Photoshop, Adobe Premiere Pro

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

Lenovo services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..



On-site Service

If a problem can't be fixed remotely, we will visit your location
Normally next business day service
Agreed appointment times

Accessories

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



PN: Varies by configuration

ThinkStation P520

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
HDD Controllers
Broadcom 9440-8i SATA/SAS PCIe Adapter
Broadcom 9460-16i SATA/SAS PCIe Adapter
Onboard Intel RSTe SATA
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

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 | 1x eSATA + 2x Thunderbolt 3 | 2x Thunderbolt 3 | 2x Thunderbolt 3 + 1x USB-C 3.1 Gen 1

Optional Rear Ports
One of the following
1x Serial | 1x Serial + 1x Thunderbolt 3 | 1x Serial + 2x USB-C 3.1 Gen 1 | 1x Serial + 2x USB-C 3.1 Gen 1 + 1x Thunderbolt 3 | 1x Thunderbolt 3 | 2x USB-C 3.1 Gen 1 | 2x USB-C 3.1 Gen 1 + 1x Thunderbolt 3

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

ALLI
Afte
Inve
Micr
SOL
Crec
Sien

Information presented here may represent the maximum possible configurations for this product, but it does not necessarily reflect what is available in your region. Please ask your rep or check the specifications for specific Part Numbers in your region. © 2023 Lenovo. Products are available while supplies last. Lenovo is not responsible for photographic or typographic errors. Lenovo, the Lenovo logo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo. 3rd party product and service names may be trademarks of others. Depending on factors such as the processing capability of peripheral devices, file attributes, system configuration and operating environments, the actual data transfer rate of USB connectors will vary and is typically slower than published standards.