

Elevate Professional Endeavors with Powerhouse Workstations

Designed for ultimate versatility, the ThinkStation P5 is the all-around industry workstation for demanding professionals. With scalable, future-proof solutions tailored to mission-critical environments, it features the latest processors and cutting-edge graphics cards, delivering unparalleled performance.

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..



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

Performance

Processor
Up to one Intel Xeon W-2100 / W-2200 Series

Operating System*
Windows 11 Pro for Workstations
Windows 11 DG Windows 10 Pro 64 for Workstations
Windows 10 Pro 64 for Workstations
Ubuntu Linux LTS
Red Hat Enterprise Linux (certified only)

Graphics
Supports up to one NVIDIA Quadro RTX 8000

Chipset
Intel C422 chipset

Memory
Up to 512GB DDR4-2933 ECC, eight DIMMs

Storage
Up to 6x 3.5" SATA HDD / 2.5" SATA HDD / 2.5" SATA SSD +
9x M.2 PCIe SSD + 1x PCIe AIC SSD
3.5" HDD up to 6TB each
2.5" SATA HDD up to 500GB each
2.5" SATA SSD up to 2TB each
2.5" SAS HDD up to 600GB each
M.2 PCIe SSD up to 2TB each
PCIe AIC SSD up to 480GB each
RAID 0/1/10/5/6 (RAID 5 and RAID 6 are optional)

Power Supply*
690W 92% PSU, 80 PLUS Platinum qualified
900W 92% PSU, 80 PLUS Platinum qualified
1000W 92% PSU, 80 PLUS Platinum qualified

Design

Dimensions
165 x 460 x 440 mm (6.5 x 18.1 x 17.3 inches, with feet)

Weight
24 kg (52.91 lbs, maximum configuration)

Bays
2x 3.5" disk bay
4x 3.5" disk bay*
2x Flex bay

Expansion Slots
Two PCIe 3.0 x16
One PCIe 3.0 x8
Two PCIe 3.0 x4
One PCI
Two onboard M.2 slots
One quad M.2 to PCIe adapter*
Three single M.2 to PCIe adapter*

Connectivity

Ethernet*
One onboard Gigabit Ethernet
Additional Ethernet options via PCIe adapter

WLAN + Bluetooth*
Intel Wi-Fi 5 8265, Bluetooth 4.2, vPro*

Front ports
1x USB 3.2 Gen 1 (Always On and fast charge)
3x USB 3.2 Gen 1
1x headphone / microphone combo jack (3.5mm)
1x eSATA*
2x Thunderbolt*
1x USB-C 3.2 Gen 1*

Rear ports
2x USB 2.0
4x USB 3.2 Gen 1
2x PS/2 ports (keyboard / mouse)
1x Ethernet (RJ-45)
1x line-in (3.5mm)
1x line-out (3.5mm)
1x microphone (3.5mm)
2x USB-C 3.2 Gen 2*
1x Thunderbolt*
1x serial*

Security & Privacy

Security
Discrete TPM 2.0
Access Panel Lock Kit with Common Key*
Access Panel Lock Kit with Unique Key*
Kensington Security Slot, 3 x 7 mm

Manageability

System Management*
Intel vPro with Intel AMT 11.0

Certifications

Green Certifications
EPEAT Silver Registered
ENERGY STAR 8.0*
GREENGUARD
RoHS compliant

Items with * are optional and only available on selected models. 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. © 2026 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.