

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.



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.

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 Photoshop, Adobe Premiere Pro, Adobe After Effects

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.