

ThinkStation P5

PSREF Product Specifications Reference

PERFORMANCE

Processor

Intel® Xeon® w3-2423, 6C (6P + 0E) / 12T, 2.1 / 4.2GHz, 15MB

Processor Sockets

1x FCLGA4677

Discrete Graphics

1x NVIDIA® RTX 4000 Ada Generation 20GB

Chipset

Intel® W790 Chipset

Memory^[1]

2x 16GB RDIMM DDR5-4800 ECC

Memory Slots

8 DDR5 DIMM slots, 4 channels capable

Max Memory^[2]

Up to 512GB (8x 64GB RDIMM)

PCIe® NVMe® Controller

Integrated NVMe® Controller, non-RAID

PCIe® NVMe® Drive

1x 1TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal

SATA Controller

Onboard Intel® RSTe SATA

SATA/SAS Drive

None

Storage Support^[3]

- Up to ten drives (3x 3.5" SATA HDD + 7x M.2 SSD)
- 3.5" HDD up to 12TB each
- M.2 SSD up to 4TB or 2TB each (see Storage Type)

Audio Chip

High Definition (HD) Audio, Realtek® ALC897-Q codec

Power Supply

1000W Platinum Fixed

DESIGN

Keyboard

USB Traditional Keyboard, Black, English

Mouse

USB Calliope Mouse, Black

Expansion Slots

- Supports 6 PCIe® slots with 2x PCIe® 5.0 slots and 4x PCIe® 4.0 slots.
- Slot 1: PCIe® 5.0 x16, full height, full length, 75W, double-width, by CPU
 - Slot 2: PCIe® 4.0 x4, full height, full length, 25W, by PCH
 - Slot 3: PCIe® 5.0 x16, full height, full length, 75W, double-width, by CPU
 - Slot 4: PCIe® 4.0 x4, full height, full length, 25W, by PCH
 - Slot 5: PCIe® 4.0 x8, full height, full length, 25W, by CPU
 - Slot 6: PCIe® 4.0 x4, full height, full length, 25W, by PCH

Bays

Three internal disk bays plus one front access M.2 bay:

- Bay 1 supports one 3.5" HDD, standard
- Bay 2 supports one 3.5" HDD, standard
- Bay 3 supports one 3.5" HDD, optional
- Front access M.2 bay supports one M.2 SSD, optional

Dimensions (WxDxH)^[4]

165 x 453.9 x 446 mm (6.5 x 17.9 x 17.6 inches, with feet)

Weight^[5]

19 kg (41.9 lbs, maximum configuration)

CONNECTIVITY

Onboard Ethernet

Intel® I219-LM, 1x GbE RJ-45

Optional Ethernet

None

WLAN + Bluetooth^[6]

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.1, vPro®

Card Reader

15-in-1 Card Reader

Front Ports

1x headphone / microphone combo jack (3.5mm)

Optional Front Ports (configured)

- 2x USB-C® 3.2 Gen 2
- 2x USB 3.2 Gen 2

Rear Ports

- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), data transfer only
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 3x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x Ethernet (GbE RJ-45)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)

Optional Rear Ports (configured)

None

SECURITY & PRIVACY

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

- Access panel lock kit with common key
- Kensington® Security Slot™, 3 x 7 mm

Cover Lock

Lock Kit with Common Key

Chassis Intrusion Switch

Chassis Intrusion Switch

MANAGEABILITY

System Management^[7]

Intel® vPro® Enterprise with Intel® AMT 16

Diagnostic

Front Diagnostic Panel with QR code

SERVICE

Base Warranty

3-year, Onsite

Included Upgrade

3Y Premier Support Upgrade from 3Y Onsite

CERTIFICATIONS

Green Certifications

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- TCO Certified 9.0
- RoHS compliant

ISV Certifications

Please visit [ISV certifications for Lenovo® Workstations](#)

SOFTWARE

Operating System

Windows® 11 Pro for Workstations, English

Bundled Software

None

MODEL

| | | | |
|-----------------|----------------|----------------|--------------|
| TopSeller | : Yes | Announce Date | : 2024-01-16 |
| EAN / UPC / JAN | : 197530262654 | End of Support | : 2031-05-03 |



Product image is a sample, it may not match the real color of this model

Note:

[1] System comes with DDR5-4800 memory and some configurations will run at 4400 MT/s due to the memory support capability of processor.

[2] The max memory is based on the test results with current.....

• Lenovo reserves the right to change specifications without notice.

To see more note information, please link to <https://psref.lenovo.com/Detail/2159?M=30GA008CUS>

Premier Support - A direct 24x7x365 line to our most elite technicians.

Advanced technical support, 24x7x365, in more than 100 markets

Technical Account Managers for proactive relationship and escalation management

Comprehensive hardware & OEM software support

Priority on service delivery and repair parts

Single point of contact for simplified end-to-end case management

Lenovo Service Connect Portal for customized reporting and product support

Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

Base Warranty - Included with the systems you purchase, default 1- or 3-year coverage window.

Warranty Extensions & Upgrades - Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

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Recommended Accessories

Lenovo USB-C to Ethernet Adapter

The Lenovo USB-C to Ethernet Adapter is quick and easy way to connect your USB-C enabled notebook to Ethernet connections. It's ideal for imaging of systems or transferring large files quickly.

Recommended Services

| | |
|------|--|
| BEST | 4Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39074) |
| GOOD | 4Y Premier Support upgrade from 3Y Premier Support (5WS0W86673) |

For a full list of accessories and services, please visit:
<https://smartfind.Lenovo.com>

PSREF
Product Specifications
Reference