

# ThinkStation P7

## PERFORMANCE

- Processor**  
Intel® Xeon® w5-3423, 12C (12P + 0E) / 24T, 2.1 / 4.2GHz, 30MB
- AI PC Category**  
AI-Ready Workstations
- Processor Sockets**  
1x FCLGA4677
- Discrete Graphics**  
1x NVIDIA® RTX A4000 16GB
- Chipset**  
Intel® W790 Chipset
- Memory**<sup>[1]</sup>  
2x 16GB RDIMM DDR5-4800 ECC
- Memory Slots**  
8 DDR5 DIMM slots, 8 channels capable
- Max Memory**<sup>[2]</sup>  
Up to 1TB (8x 128GB 3DS-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
- Storage Support**<sup>[3]</sup>  
Up to eleven drives (3x 3.5" SATA HDD + 8x M.2 SSD) or 9 drives (9x 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**<sup>[4]</sup>  
1400W Platinum Fixed

## DESIGN

- Keyboard**  
USB Traditional Keyboard, Black, English
- Mouse**  
USB Calliope Mouse, Black

- Expansion Slots**  
Supports 7 PCIe® slots with 4x PCIe® 5.0 slots and 3x PCIe® 4.0 slots.
  - Slot 1: PCIe® 5.0 x16, full height, full length, 75W, double-width
  - Slot 2: PCIe® 4.0 x8, full height, full length, 25W
  - Slot 3: PCIe® 5.0 x16, full height, full length, 75W, double-width
  - Slot 4: PCIe® 4.0 x4, full height, full length, 25W
  - Slot 5: PCIe® 5.0 x16, full height, full length, 75W, double-width
  - Slot 6: PCIe® 4.0 x16, full height, full length, 75W
  - Slot 7: PCIe® 5.0 x4, full height, full length, 25W
- Bays**  
Three internal disk bays plus one front access M.2 bay:
  - Bay 1 supports one 3.5" HDD, standard, optional support for M.2 SSD
  - Bay 2 supports one 3.5" HDD, standard, optional support for M.2 SSD
  - Bay 3 supports one 3.5" HDD, optional
  - Front access M.2 bay supports one M.2 SSD, optional
- Dimensions (WxDxH)**<sup>[5]</sup>  
175 x 508 x 434.4 mm (6.9 x 20 x 17.1 inches, with feet)
- Weight**<sup>[6]</sup>  
24.5 kg (50.0 lbs, maximum configuration)
- CONNECTIVITY**
- Onboard Ethernet**  
Intel® I219-LM + Marvell AQtion AQC-113C, 2x RJ-45, GbE + 10GbE
- WLAN + Bluetooth**<sup>[7]</sup>  
Intel® Wi-Fi® 6E AX210, 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 (10GbE RJ-45)
  - 1x Ethernet (GbE RJ-45)
  - 1x line-in (3.5mm)
  - 1x line-out (3.5mm)

## 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**<sup>[8]</sup>  
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

## MODEL

|                        |                |                       |              |
|------------------------|----------------|-----------------------|--------------|
| <b>TopSeller</b>       | : Yes          | <b>Announce Date</b>  | : 2023-12-14 |
| <b>EAN / UPC / JAN</b> | : 197531629791 | <b>End of Support</b> | : 2031-05-06 |

Note:  
<sup>[1]</sup> System comes with DDR5-4800 memory and some configurations will run at 4400 MT/s due to the memory support capability of processor.  
<sup>[2]</sup> The max memory is based on the test results with current Lenovo memory offerings.  
<sup>[3]</sup> The storage capacity supported is based on the test results with current Lenovo storage offerings.  
<sup>[4]</sup> Countries with input voltage is 100 - 111.9V, output power is limited to 1125W; input voltage is 120V, output power is limited to 1250W.  
<sup>[5]</sup> The system dimensions may vary depending on configurations.  
<sup>[6]</sup> The system weight is approximate and based on results in.....  
· Lenovo reserves the right to change specifications without notice.  
To see more note information, please link to <https://psref.lenovo.com/Detail/2084?M=30F30052US>

## 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

### Kensington MicroSaver 2.0 Cable Lock from Lenovo

Protect your device. Lenovo offers the latest standard in device security – the MicroSaver 2.0 Cable Lock From Lenovo. Engineered to be the smallest, strongest lock for laptops and other devices, the MicroSaver 2.0 re...

### Lenovo Essential USB Mouse

The Lenovo Essential USB Mouse is more than your basic mouse. It features an easy plug-and-play connection to PCs with a USB cable. The ergonomic full-size design provides comfortable grip for all day comfort. A high...

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

**PSREF**  
Product Specifications  
Reference