ThinkStation P7

PSREF
Product Specifications Reference

PERFORMANCE

Processor
Intel® Xeon® w5-3423, 12C (12P + 0E) / 24T, 2.1 / 4.2GHz, 30MB

Processor Sockets
1x FCLGA4677

Discrete Graphics
1x NVIDIA® RTX A2000 12GB

Chipset
Intel® W790 Chipset

Memory[1]
4x 16GB RDIMM DDR5-4800 ECC

Memory Slots
8 DDR5 DIMM slots, 8 channels capable

Max Memory[2]
Up to 1TB (8x 128GB 3DS-RDIMM)

PCIe® NVMe® Controller
Integrated NVMe® Controller, non-RAID

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

SATA Controller
Onboard Intel® RSTe SATA

Storage Support[3]
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[4]
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)[5]
175 x 508 x 434.4 mm (6.9 x 20 x 17.1 inches, with feet)

Weight[6]
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®[7]
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[8]
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

TopSeller	: Yes	**Announce Date**	: 2023-12-14
EAN / UPC / JAN	: 197531629418	**End of Support**	: 2031-05-06

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 memory offerings.
[3] The storage capacity supported is based on the test results with current Lenovo storage offerings.
[4] Countries with input voltage is 100 - 111.9V, output power is limited to 1125W; input voltage is 120V, output power is limited to 1250W.
[5] The system dimensions may vary depending on configurations.
[6] 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=30F30046US

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...

Recommended Services

BETTER	3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39110)

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

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Product Specifications Reference