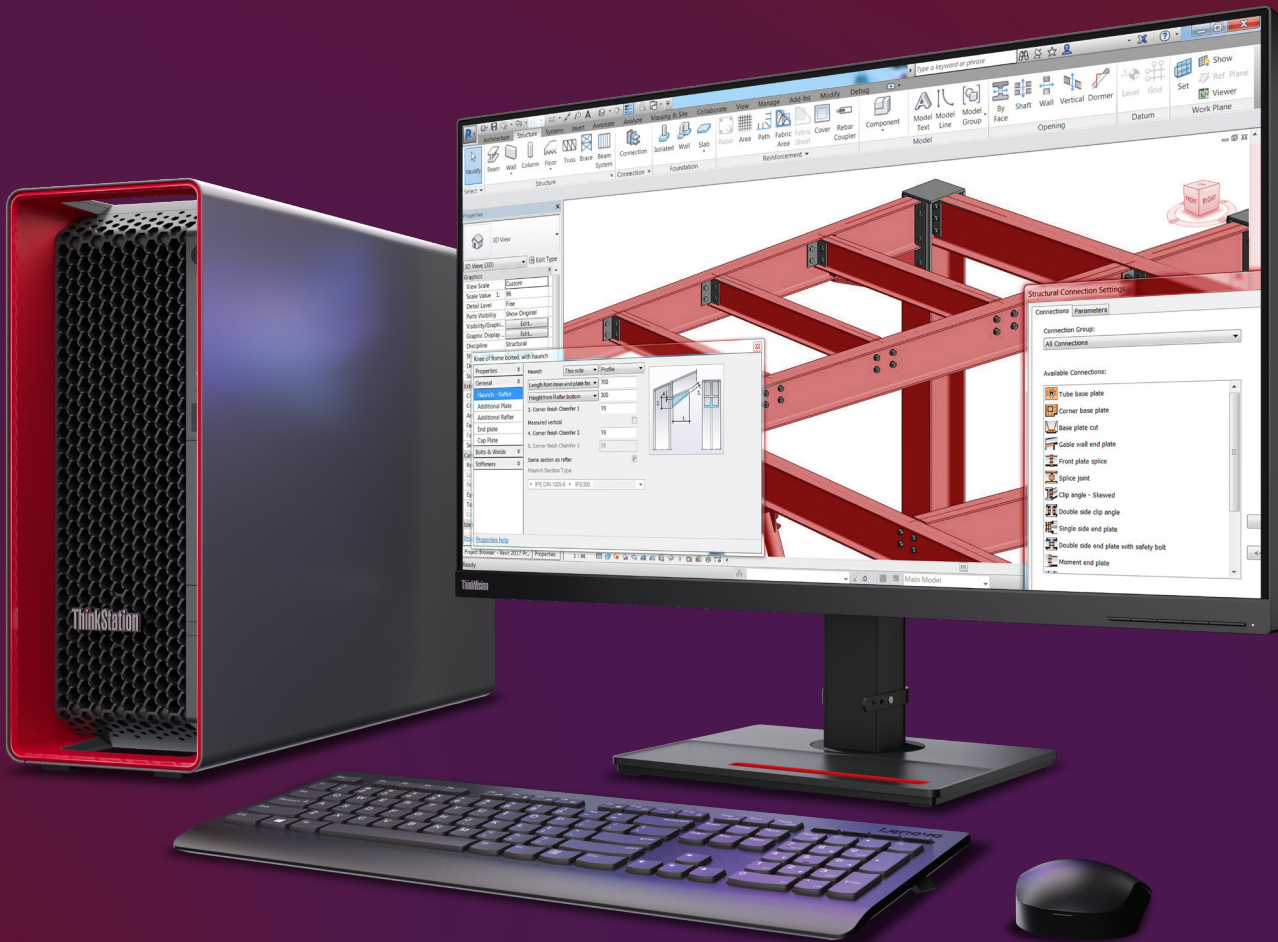


# Lenovo ThinkStation

## Lenovo ThinkStation P7 Staggering, Single-Socket Power

Lenovo



The bold Lenovo ThinkStation P7 is a force to be reckoned with and brings together a breakthrough new compute architecture with an advanced thermal design in a rack-optimized, Aston Martin-inspired chassis. Featuring the latest Intel® Xeon® W processors, up to three NVIDIA RTX™ 6000 Ada Generation GPUs, robust PCIe Gen 5 connectivity, and high-speed DDR5 memory, the P7 delivers staggering performance output from a single-socket platform.

Processor:

**56 Cores**  
**4.8GHz**

Intel Xeon W processor

Graphics:

**3 NVIDIA RTX**  
**6000 Ada**

Each with 48GB VRAM\*

ECC Memory:

**1TB**  
**DDR5**

8 DIMM Slots

Internal Storage:

**52TB**

Up to 7 Drives Total<sup>1</sup>

## Features



**Aston Martin Inspired Chassis**  
Tool-less and customizable with hot-swap, front access drives



**Rack-Optimized**  
Flexibility between desktop and data center with non-disruptive workstation acoustics



**Advanced Thermal Design**  
To maximize component performance and productivity



**Breakthrough Compute Architecture**  
Latest Intel Xeon W processors, with up to 56 cores in a single socket for compute-intensive, multithreaded workloads

## Lenovo ThinkStation P7 Product Specifications<sup>^</sup>

### Performance

#### Processor

Intel® Xeon® W-3400 processor (up to 56 cores, up to 4.8GHz)

#### Chipset

Intel W790

#### Graphics

Up to 3 NVIDIA RTX 6000 Ada\* 48GB VRAM

#### Total Memory

Up to 1TB DDR5, 4800MHz<sup>2</sup>

#### Memory DIMM Capacity

16GB / 32GB / 64GB / 128GB ECC

8 DIMM Slots

#### Storage Type Capacity

M.2 PCIe NVMe SSD up to 4TB

3.5" SATA HDD up to 12TB

#### Total Storage<sup>3,^</sup>

Up to 7 total drives

Max M.2 = 4 (16TB)

Max 3.5" = 3 (36TB)

or

Up to 6 total drives

Max M.2 = 5 (20TB)

Max 3.5" = 1 (12TB)

#### RAID

M.2 = 0/1/10/5

SATA = 0/1/5

#### Power Supply<sup>^</sup>

1000W, 1400W (92% efficient)

Rear power button

### Design

#### Dimensions (WxDxH)

(mm): 175 x 508 x 435

(inches): 6.9 x 20 x 17.1

#### Weight

Up to 23kg (49.6lbs)

### Connectivity

#### Front Ports

(1) Audio Combo Jack

#### Optional Front Ports

(2) USB-A 3.2 Gen 2 (10Gbps)\*\*

(2) USB-C® 3.2 Gen 2 (10Gbps)\*\*

#### Optional Front Removable Storage

(1) Media Card Reader

(1) Front Accessible Storage Enclosure<sup>6</sup>

#### Rear Ports

(2) USB 2.0\*\*

(3) USB-A 3.2 Gen 2 (10Gbps)\*\*

(1) USB-C 3.2 Gen 2x2 (20Gbps)\*\*

(1) RJ-45 Gigabit Ethernet

(1) RJ-45 10 Gigabit Ethernet

(1) Line in

(1) Line out

#### Optional Rear Ports

(1) Serial

#### WLAN

Intel AX210 Wi-Fi 6E 2x2 + Bluetooth™ 5.2, Intel vPro<sup>4,5</sup>

Internal Wi-Fi Antennas<sup>5</sup>

#### Expansion Slots

(3) PCIe 5.0 x16

(1) PCIe 4.0 x16

(1) PCIe 4.0 x8

(1) PCIe 5.0 x4

(1) PCIe 4.0 x4

#### Expansion Options<sup>5</sup>

PS/2

USB-C

LAN

**Smarter  
technology  
for all**

**Lenovo**

1 Depending on drive configuration

2 4800MHz max speed; available depending on configuration

3 Any combination of storage to equal maximum storage drives; additional hardware may be required

4 Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

5 Optional, additional hardware may be required

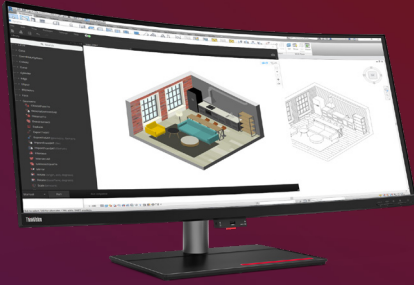
6 (1) M.2 PCIe NVMe SSD

<sup>^</sup> For a full list of configuration details, specifications, and any limitations please visit: <https://psref.lenovo.com>

\* NVIDIA RTX Ada Graphics Available Summer 2023

\*\* USB port transfer speeds are approximate and depend on many factors, such as processing capability of host/peripheral devices, file attributes, system configuration and operating environments; actual speeds will vary and may be less than expected.

## Lenovo Options & Accessories



ThinkVision P40w-20



2TB Performance PCIe Gen4 NVMe OPAL2 M.2 2280 SSD



NVIDIA RTX™ A4500 Graphics Card



Lenovo Professional Wireless Rechargeable Combo Keyboard and Mouse

For a full list of accessories and options, please visit: [accsmartfind.lenovo.com](https://accsmartfind.lenovo.com)

For more details on ThinkStation and ThinkPad, please visit: [lenovo.com/thinkworkstations](https://lenovo.com/thinkworkstations)

Visit us on social media: [#lenovoworkstations](https://twitter.com/lenovoworkstations)



March 2023 ©Lenovo. All rights reserved. Lenovo is not responsible for photographic or typographic errors. Lenovo makes no representation or warranty regarding third-party products or services. LENOVO, ThinkStation, and ThinkPad are trademarks of Lenovo.

## Lenovo ThinkStation P7 General Specifications<sup>^</sup>

### Software

#### Operating System

##### Preloaded:

Windows 11 Pro for Workstation

Windows 10 Pro for Workstation (pre-installed through downgrade rights in Windows 11 Pro)

Ubuntu® Linux<sup>®1</sup>

##### Supported:

Windows 10 Enterprise Edition

Red Hat® Enterprise Linux\* (certified)

#### Windows Preloads

Lenovo Commercial Vantage

#### ISV Certifications

Including AVID®, Altair®, Autodesk®, ANSYS®, Bentley®, Dassault®, Nemetschek®, PTC®, Siemens®

For a complete list of ISV certifications visit <http://www.thinkworkstations.com/isv-certifications/>

### Security

#### ThinkShield

TPM 2.0

Self-healing BIOS

Power On Password

UEFI Secure Boot

Kensington Lock Slot

### Sustainability

#### Certifications

ENERGY STAR<sup>®2</sup>

EPEAT<sup>®3</sup> Gold

RoHS Compliant

TCO 9.0

80 Plus Platinum power supply

## Recommended Services

Lenovo offers a comprehensive portfolio of services to support and protect your ThinkStation investment—so you can focus on your business, not your IT.

#### Premier Support

Bypass phone menus and scripted troubleshooting to access advanced-level technicians with the expertise needed to quickly diagnose and solve problems.

#### Warranty Extensions

##### (1 to 5 years total duration)

This fixed-term, fixed-cost service helps you accurately budget for PC expenses, protect your valuable investment, and potentially lower the cost of ownership over time.

#### Warranty Upgrades—

##### Onsite and Next Business Day

Maximizes PC uptime and productivity by providing convenient, fast repair service the next business day.

<sup>1</sup> Select Versions Available Via Preload

<sup>2</sup> Certification Available on Select Models

<sup>3</sup> Certification Available on Select Models; EPEAT registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country

<sup>^</sup> For a full list of configuration details please visit: <https://psref.lenovo.com>

Lenovo

