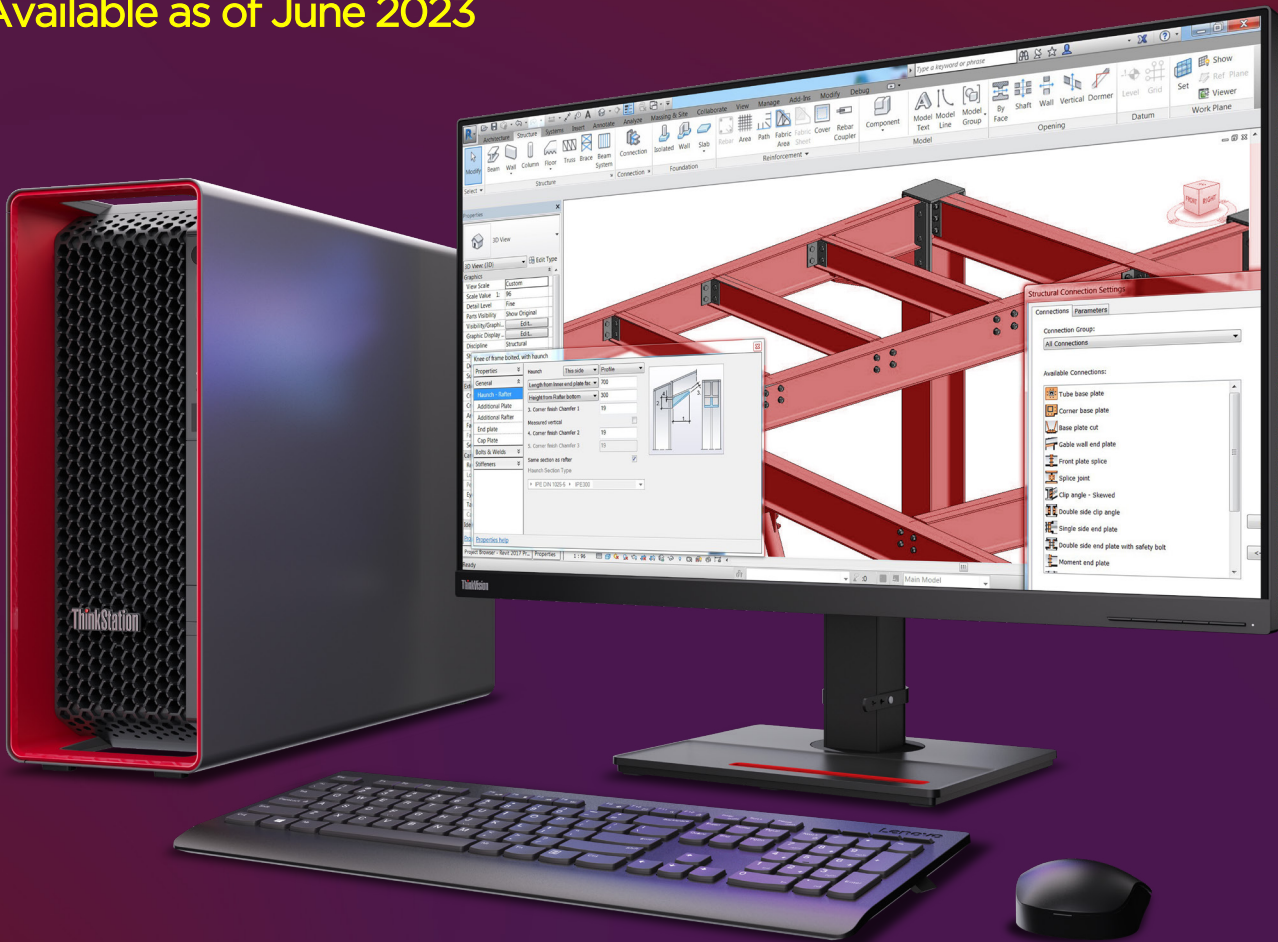


Lenovo ThinkStation

Lenovo ThinkStation P7 Staggering, Single-Socket Power

Available as of June 2023



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 Total¹

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[^]



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, 4800MHz²

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^{3,^}

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[^]

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)**

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 vPro⁴

Internal Wi-Fi Antennas

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 Options⁵

PS/2

USB-C

LAN

1 Depending on drive configuration
2 4800GHz 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

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

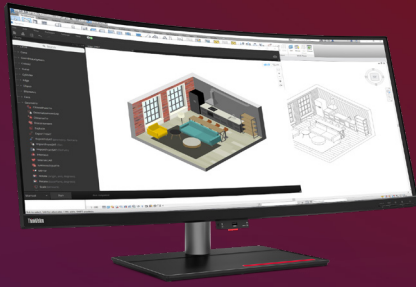
* NVIDIA RTX Ada Graphics Available Summer 2023

** 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.

Smarter
technology
for all

Lenovo

Lenovo Options & Accessories



ThinkVision P40w-20



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



NVIDIA RTX™ A4500 Graphics Card

For a full list of accessories and options, please visit: accsmartfind.lenovo.com

For more details on ThinkStation and ThinkPad, please visit: lenovo.com/thinkworkstations

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



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Lenovo ThinkStation P7 General Specifications[^]



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^{®1}

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^{®2}

EPEAT^{®3} 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.

1 Select Versions Available Via Preload

2 Certification Available on Select Models

3 Certification Available on Select Models; EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country

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

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