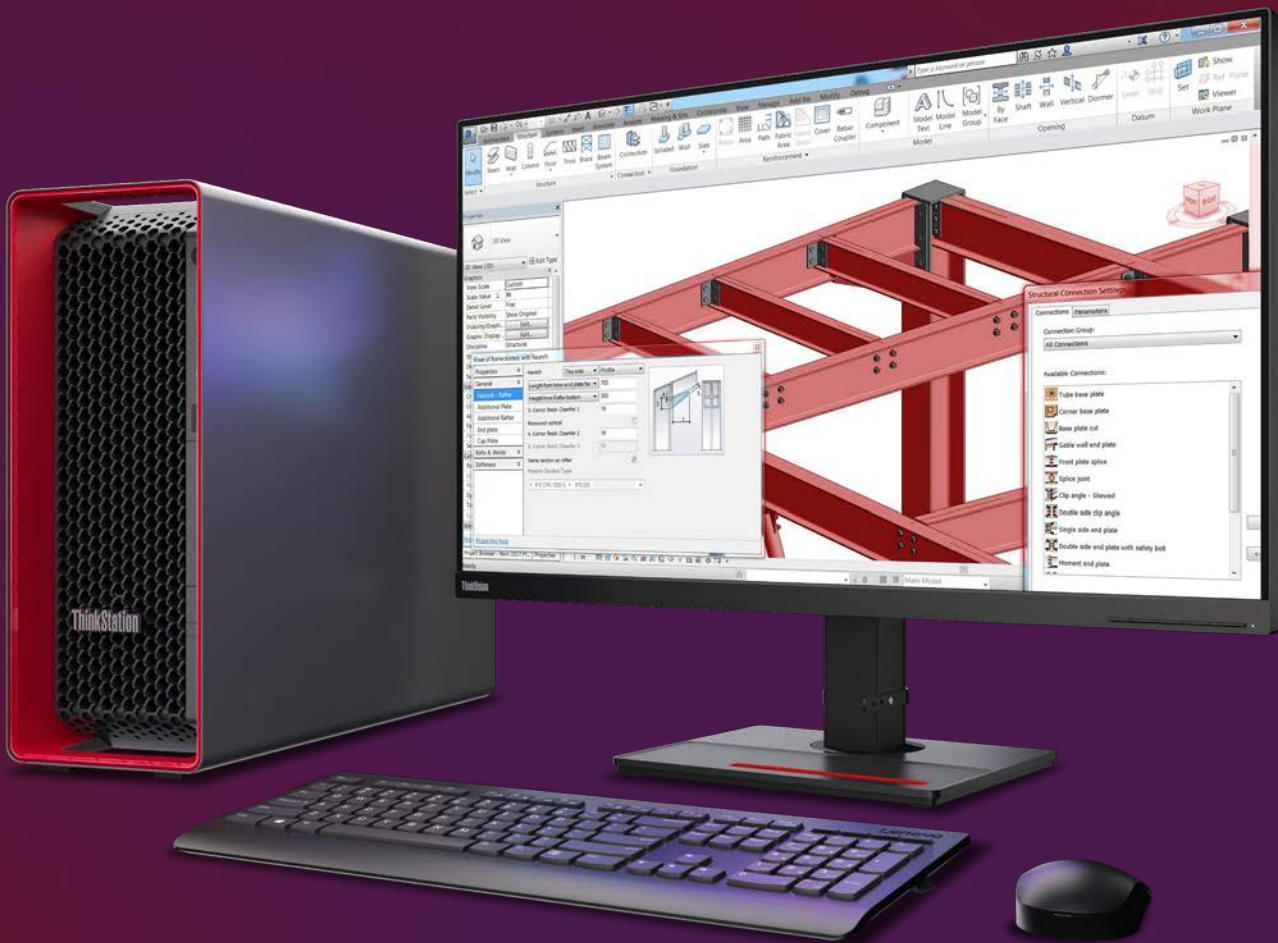# Lenovo ThinkStation

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[1]

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, 4800MHz[2]

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 vPro[4,5]
Internal Wi-Fi Antennas[5]

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[5]
PS/2
USB-C
LAN

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

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.

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3 Certification Available on Select Models; EPEAT registered

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