

PERFORMANCE

Processor

Intel® Core™ i9-13900, 24C (8P + 16E) / 32T, Max Turbo up to 5.6GHz, P-core 2.0 / 5.2GHz, E-core 1.5 / 4.2GHz, 36MB

Processor Sockets

1x FCLGA1700

Integrated Graphics

Integrated Intel® UHD Graphics 770

Discrete Graphics

None

Chipset

Intel® W680 Chipset

Memory^[1]

2x 32GB SO-DIMM DDR5-4800 Non-ECC

Memory Slots

Four DDR5 SO-DIMM slots, dual-channel capable

Max Memory^[2]

Up to 192GB (4x 48GB DDR5 SO-DIMM)

PCIe® NVMe® Controller

Integrated NVMe® controller

PCIe® NVMe® Drive

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

SATA Controller

Integrated SATA controller

SATA/SAS Drive

None

Storage Support^[3]

Up to 1x 2.5" HDD or SSD + 2x M.2 SSD

- 2.5" HDD up to 1TB
- 2.5" SSD up to 7.68TB
- M.2 SSD up to 4TB each

Audio Chip

High Definition (HD) Audio, Realtek® ALC897-Q codec

Power Supply

230W 90% Adapter

DESIGN

Keyboard

USB Traditional Keyboard, Black, German

Mouse

USB Calliope Mouse, Black

Expansion Slots

Two PCIe® slots with one PCIe® 4.0 x16 and one PCIe® 3.0 x8.

- Slot 1: PCIe® 4.0 x16 (via MXM to PCIe® riser card), low profile, 75W, double-width
- Slot 2: PCIe® 3.0 x8 (x4 lanes), low profile, 25W

Bays

1x 2.5" disk bay (optional, comes with disk)

Dust Filter

None

Dimensions (WxDxH)^[4]

87 x 223 x 202 mm (3.43 x 8.78 x 7.95 inches)

Weight^[5]

3.6 kg (7.94 lbs, maximum configuration)

CONNECTIVITY

Onboard Ethernet

Intel® I225-LM + I210-AT, 2x RJ-45, 2.5GbE + GbE

Optional Ethernet

None

WLAN + Bluetooth®

None

Front Ports

- 2x Thunderbolt™ 4
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x headphone / microphone combo jack (3.5mm)

Rear Ports

- 4x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 3x DisplayPort™ 1.2
- 1x Ethernet (2.5GbE RJ-45)
- 1x Ethernet (GbE RJ-45)

Optional Rear Ports (configured)

None

SECURITY & PRIVACY

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Chassis Intrusion Switch

Chassis Intrusion Switch

MANAGEABILITY

System Management^[6]

Intel® vPro® Enterprise with Intel® AMT 16

SERVICE

Base Warranty

3-year, Onsite

Included Upgrade

None

CERTIFICATIONS

Green Certifications

- ENERGY STAR® 8.0, EPEAT™ Gold Registered
- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- RoHS compliant
- TCO Certified 9.0

ISV Certifications

Please visit [ISV certifications for Lenovo® Workstations](#)

Mil-Spec Test

MIL-STD-810H military test passed

SOFTWARE

Operating System

Windows® 11 Pro, German

Bundled Software

None

MODEL

TopSeller	: Yes	Announce Date	: 2024-08-06
EAN / UPC / JAN	: 0198154956516	End of Support	: 2031-05-24

Product image is a sample, it may not match the real color of this model

Note:

^[1] System comes with DDR5-4800 memory and will run at lower speed due to platform limitations:

4x 32GB configuration runs at 3600 MT/s;
other configurations run at 4000 MT/s.

^[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] The system dimensions may vary depending on configurations.

^[5] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

^[6] Intel vPro offers a superset of DASH's defined.....

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/2235?M=30HA0090GE>

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

4XEON80914

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

BEST	3Y Premier Support Plus upgrade from 3Y Onsite (5WS1L39093)
BETTER	3Y Premier Support Upgrade from 3Y Onsite (5WS0U26646)
GOOD	3Y Keep Your Drive Add On (5PS0Q11763)

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



PSREF
Product Specifications
Reference