

PERFORMANCE**Processor**

Intel® Core™ i9-12900, 16C (8P + 8E) / 24T, P-core 2.4 / 5.0GHz, E-core 1.8 / 3.8GHz, 30MB

Processor Sockets

1x FCLGA1700

Integrated Graphics

Intel UHD Graphics 770

Discrete Graphics

NVIDIA® RTX A4000 16GB

Chipset

Intel W680

Memory

32GB UDIMM DDR5-4000 non-ECC

Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

Max Memory

Up to 128GB DDR5-4000

M.2 SSD RAID Controller

Onboard Intel RSTe PCIe®

M.2 SSD Drive

1TB SSD M.2 2280 PCIe Gen 4x4 Performance NVMe® Opal

HDD Controller

Onboard Intel RST SATA RAID

SATA/SAS Drive

None

Storage Support

Up to 2x 3.5" SATA HDD or 4x 2.5" SATA HDD; also supports up to 3x M.2 SSD (2 by onboard, 1 by M.2 to PCIe adapter)

- 3.5" HDD up to 4TB each
- 2.5" HDD up to 1TB each
- Onboard M.2 SSD up to 4TB each
- M.2 SSD by M.2 to PCIe adapter up to 2TB

Optical

None

Audio Chip

High Definition (HD) Audio, Realtek® ALC897Q-CG codec

Power Supply

750W Platinum Fixed

DESIGN**Keyboard**

USB Traditional Keyboard, Black, English

Mouse

USB Calliope Mouse, Black

Expansion Slots

- Two PCIe 3.0 x1 (open ended)
- One PCIe 4.0 x16 (x4 lanes)
- One PCIe 4.0 x16

M.2 Slots

- Up to 3x M.2 SSD:
 - 2 via onboard M.2 PCIe Gen 4 slots
 - 1 via Single M.2 to PCIe adapter, PCIe Gen 3
- One M.2 slot for WiFi

Bays

- 1x 3.5" disk bay (standard)
- 2x 2.5" disk bay (optional)
- 1x 3.5" disk bay (optional)

Dimensions (WxDxH)

170 x 315.4 x 376 mm (6.7 x 12.4 x 14.8 inches)

Weight

Starting at 9.7 kg (21.38 lbs)

CONNECTIVITY**Onboard Ethernet**

Intel I219-LM, 1x GbE RJ-45

Optional Ethernet

None

WLAN + Bluetooth®

None

Card Reader

SD Card Reader

Front Ports

- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Rear Ports

- 4x USB 3.2 Gen 1 (one supports Smart Power On)
- 1x HDMI® 2.1 TMDS
- 2x DisplayPort™ 1.4
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports (configured)

1x DP

SECURITY & PRIVACY**Security Chip**

Discrete TPM 2.0, TCG certified

Physical Locks

- Kensington® Security Slot
- Padlock Loop

Cover Lock

None

Cable Lock

None

Chassis Intrusion Switch

None

MANAGEABILITY**System Management**

vPro Enterprise

SERVICE**Base Warranty**

3-year, Onsite

Included Upgrade

3Y Premier Support Upgrade from 3Y Onsite (5WSOU26646)

CERTIFICATIONS**Green Certifications**

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

ISV CertificationsPlease visit [ISV certifications for Lenovo® Workstations](#)**Mil-Spec Test**

MIL-STD-810H military test in progress

SOFTWARE**Operating System**

Windows® 11 Pro 64, English

Bundled Software

None

MODEL

TopSeller : Yes

Announce Date : 2022-03-24

EAN / UPC / JAN : 196380103964

End of Support : 2030-04-24

Premier Support - A direct 24x7x365 line to our most elite technicians.



Advanced technical support, 24x7x365, in more than 100 markets



Comprehensive hardware & OEM software support



Single point of contact for simplified end-to-end case management



Technical Account Managers for proactive relationship and escalation management



Priority on service delivery and repair parts



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

Lenovo may not offer the products, services or features discussed in this document in all regions. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

Recommended Accessories



Lenovo 500 FHD Webcam

4XCOV13599

A USB Video Class (UVC) compliant video camera designed for teleconferencing applications on desktop or laptop. It's a reliable digital video device to transfer video data with HD quality through a high-speed USB interface...



Lenovo Professional Wireless Combo Keyboard & Mouse (US English)

4X30H56796

This sleek and stylish full-size keyboard and mouse combo offers exceptional quality in a modern wireless solution. The slim 3-zone keyboard with number pad has responsive quiet keys and a premium typing experience. O...

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



PSREF
Product Specifications
Reference