

## PERFORMANCE

### Processor

Intel® Core™ i9-12900K, 16C (8P + 8E) / 24T, Max Turbo up to 5.2GHz, P-core 3.2 / 5.1GHz, E-core 2.4 / 3.9GHz, 30MB

### Processor Sockets

1x FCLGA1700

### Integrated Graphics

Integrated Intel UHD Graphics 770

### Discrete Graphics

1x NVIDIA® RTX A4000 16GB

### Chipset

Intel W680 Chipset

### Memory

2x 16GB UDIMM DDR5-4800 ECC

### Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

### Max Memory<sup>(1)</sup>

Up to 128GB (4x 32GB DDR5 UDIMM)

### M.2 SSD RAID Controller

Onboard Intel RSTe PCIe®

### M.2 SSD Drive

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

### HDD Controller

Onboard Intel RST SATA RAID

### Storage Support<sup>(2)</sup>

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

9.0mm DVD±RW

### Audio Chip

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

### Power Supply

750W Platinum Fixed

## DESIGN

### Keyboard

USB Calliope Keyboard, Black, English

### Mouse

USB Calliope Mouse, Black

### Expansion Slots

Supports four PCIe slots with two PCIe 4.0 x16 and two PCIe 3.0 x1.

- Slot 1: PCIe 4.0 x16, full height, full length, 75W, double-width
- Slot 2: PCIe 3.0 x1, full height, half length, 25W
- Slot 3: PCIe 4.0 x16 (x4 lanes), full height, half length, 25W, double-width
- Slot 4: PCIe 3.0 x1, full height, half length, 25W

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

### Dimensions (WxDxH)<sup>(3)</sup>

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

### Weight<sup>(4)</sup>

9.67 kg (21.32 lbs, maximum configuration)

## CONNECTIVITY

### Onboard Ethernet

Intel I219-LM, 1x GbE RJ-45

### WLAN + Bluetooth®

Intel Wi-Fi® 6 AX201, 11ax 2x2 + BT5.1, vPro®

### Card Reader

SD Card Reader

### Front Ports

- 1x USB-C® 3.2 Gen 2 (support data transfer)
- 2x USB 3.2 Gen 1
- 2x USB 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)

- 2x PS/2
- 1x Serial

## SECURITY & PRIVACY

### Security Chip

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

### Physical Locks

- Cable lock
- E-lock
- Kensington® Security Slot™, 3 x 7 mm
- Padlock Loop

### Cover Lock

E-Lock

### Cable Lock

Cable Lock

### Chassis Intrusion Switch

Chassis Intrusion Switch

## MANAGEABILITY

### System Management<sup>(5)</sup>

Intel® vPro® Enterprise with Intel AMT 16

## SERVICE

### Base Warranty

3-year, Onsite

### Included Upgrade

3Y Premier Support Upgrade from 3Y Onsite

## CERTIFICATIONS

### Green Certifications<sup>(6)</sup>

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 3
- 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, English

## MODEL

<b>TopSeller</b>	: Yes	<b>Announce Date</b>	: 2022-11-22
<b>EAN / UPC / JAN</b>	: 196803582185	<b>End of Support</b>	: 2030-04-24

Note:

<sup>(1)</sup> The max memory is based on the test results with current.....

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to <https://psref.lenovo.com/Detail/1783?M=30FM00AGID>

## 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	5Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39474)
BETTER	4Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39058)
GOOD	3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39322)

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



**PSREF**  
Product Specifications  
Reference