

ThinkCentre neo 50a 24 Gen 5 12SD004SUS

Lenovo

PSREF
Product Specifications
Reference

PERFORMANCE

Processor

Intel® Core™ i7-13620H, 10C (6P + 4E) / 16T, P-core 2.4 / 4.9GHz, E-core 1.8 / 3.6GHz, 24MB

Graphics

Integrated Intel® UHD Graphics

Chipset

Intel® SoC Platform

Memory

2x 16GB SO-DIMM DDR5-5200

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Max Memory^[1]

Up to 32GB DDR5-5200

Storage

512GB SSD M.2 2280 PCIe® 4.0x4 NVMe® Opal 2.0

Storage Support^[2]

One drive, up to 1TB M.2 2280 SSD

Card Reader

No card reader

Optical

None

Audio Chip

High Definition (HD) Audio, Realtek® ALC233-CG codec

Speakers

3Wx2

Camera

5.0MP

Microphone

2x, Array

Power Supply

90W 89% Adapter

DESIGN

Display^[3]

23.8" FHD (1920x1080) IPS Anti-glare 250nits, 99% sRGB, touch

Touchscreen

10-point Multi-touch

Keyboard

USB Calliope Keyboard, Black, English

Mouse

USB Calliope Mouse, Black

Expansion Slots

Two M.2 slots (one for WLAN, one for SSD)

Case Color

Luna Grey

Stand

Monitor Stand

Mounting

None

Wireless Charger

None

Form Factor

AIO (23.8 inches)

Dimensions (WxDxH)^[4]

540 x 192 x 431 mm (21.25 x 7.56 x 16.97 inches)

Weight^[5]

Around 6.0 kg (13.23 lbs)

CONNECTIVITY

Ethernet

Integrated 100/1000M

WLAN + Bluetooth^[6]

Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 + BT5.2

Rear Ports

- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 1x HDMI®-in 1.4
- 1x HDMI®-out 2.1 TMDS
- 1x Ethernet (RJ-45)
- 1x power connector

Left Ports

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), data transfer only
- 1x headphone / microphone combo jack (3.5mm)

SECURITY & PRIVACY

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

No physical locks

Chassis Intrusion Switch

No chassis intrusion switch

MANAGEABILITY

System Management

None

SERVICE

Base Warranty

1-year, Onsite

Included Upgrade

None

CERTIFICATIONS

Green Certifications

- ENERGY STAR® 8.0
- EPEAT™ Silver Registered
- ErP Lot 3/7
- GREENGUARD®
- RoHS / WEEE / REACH

Other Certifications

- TÜV Rheinland® Flicker Free
- TÜV Rheinland® Low Blue Light
- TÜV Rheinland® Ultra Low Noise

SOFTWARE

Operating System

Windows® 11 Pro, English

Bundled Software

None

MODEL

TopSeller	: Yes	Announce Date	: 2024-09-03
EAN / UPC / JAN	: 198155184963	End of Support	: 2031-03-30



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

Note:

[1] The max memory is based on the test results with current Lenovo memory offerings.

[2] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

[3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

[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] Bluetooth 5.2 requires Windows 11.

• Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/2428?M=12SD004SUS>

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



Lenovo Essential USB Mouse

4Y50R20863

The Lenovo Essential USB Mouse is more than your basic mouse. It features an easy plug-and-play connection to PCs with USB cord. The ergonomic full-size design provides comfortable grip for all day comfort. A high-re...

Recommended Services

BEST	4Y Premier Support Plus upgrade from 1Y Onsite (5WS1L39466)
BETTER	3Y Premier Support Plus upgrade from 1Y Onsite (5WS1L39351)
GOOD	3Y Premier Support Upgrade from 1Y Onsite (5WS0T36111)

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



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