

ThinkCentre neo 50a 27 Gen 5

This all-in-one device is a powerhouse for desk-based professionals, providing the performance, versatility, and security required to excel in diverse work environments. With up to 13th Gen Intel Core i7 processor and up to 32GB DDR5 memory, experience seamless multitasking and fast response times. It can tackle resource-intensive tasks effortlessly, which makes it ideal for content creators, software developers, and data analysts. Support for up to 2 independent monitors is ideal for financial analysts, researchers, and anyone requiring an extended desktop for enhanced efficiency.



Empowering the modern workforce with a streamlined desktop experience

ThinkCentre Neo series offers enhanced manageability and security features, along with additional configuration and expansion options.

The 27" display provides a visually immersive experience. Opt for the optional multi-touch display with low blue light technology for enhanced comfort during prolonged usage. Perfect for graphic designers and architects who carry out visually demanding tasks.

Experience HD audio through Realtek stereo speakers and a dual-microphone array. Users can communicate clearly during virtual meetings, making it an excellent choice for consultants, sales professionals, and customer support teams.

Experience HD audio through Realtek stereo speakers and a dual-microphone array. Communicate clearly during virtual meetings, making it an excellent choice for consultants, sales professionals, and customer support teams. Enhance your virtual meetings with the optional 5.0 MP IR camera. Perfect for professionals who frequently engage in video conferencing, ensuring you're seen clearly in every interaction.

Lenovo Services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..



Accessories

ThinkPad Bluetooth Silent Mouse

- Left/Right hand, easy-to-carry low profile mouse
- Switch between 2 devices with dual-host Bluetooth 5.0 connectivity
- 2-way scrolling with on-the-fly DPI adjustment (2400, 1600, 800)



PN: With Battery : 4Y50X88822 Without Battery : 4Y50X88823

ThinkCentre neo 50a 27 Gen 5

Performance

Processor

13th Gen Intel Core i3 / i5 / i7 or Intel H Series Core 5 / 7 Processor (Series 2)

Operating System*

Windows 11 Pro or Home

Graphics

Intel UHD Graphics (integrated)

Chipset

Intel SoC (System on Chip) platform

Memory¹

Up to 32GB DDR5-5200, two SODIMM slots

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

Storage²

One drive, up to 1TB M.2 SSD

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

Audio*

High Definition (HD) Audio
Stereo speakers, 3W x2, Audio by HARMAN
Dual-microphone array

Camera*

5.0-megapixel*
5.0-megapixel IR camera*

Power Supply*

135W 90% PSU
90W 89% PSU

Design

Display

27" FHD (1920x1080) IPS display, Anti-glare 16:9
- 300nits, 99% sRGB, low blue light, flicker free, optional touch

Form factor

AIO (27 inches)

Dimensions³

611.72 x 192 x 473.16 mm (24.08 x 7.56 x 18.62 inches)

³The system dimensions may vary depending on configurations.

Weight⁴

Around 7.1 kg (15.65 lbs)

⁴The system weight is approximate and may vary depending on configurations

Expansion Slots

One M.2 slot (for WLAN)
One M.2 slot (for SSD)

Connectivity

WLAN + Bluetooth*^{5 6}

802.11ax (Wi-Fi 6), Bluetooth 5.2
Up to Realtek Wi-Fi 6 RTL8852BE, Bluetooth 5.2

⁵Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

⁶Wi-Fi 6 full features might be limited by country-level restrictions. Bluetooth 5.3 operation requires Windows 11. For more information please visit [General Bluetooth Support Information on Microsoft](#).

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 headphone / microphone combo jack (3.5mm)
1x USB-C (USB 10Gbps / USB 3.2 Gen 2), data transfer and 15W charging

Security & Privacy

Security⁷

Firmware TPM 2.0 integrated in SoC
Kensington Security Slot

⁷The Kensington security slot is standard configuration on products manufactured after 2025/2/10. Please refer to the actual product.

Environmental

Material

65% PCC ABS bezel
95% PCC recycled plastic used in USB keyboard/mouse
90% PIC recycled plastic EPE cushion
30% OBP used in bag FSC certified paper in packaging

Lenovo services

Base Warranty

Up to 1-year limited onsite service

Certifications

Green Certifications^{9 10}

ENERGY STAR 8.0*
EPEAT Gold Registered*
GREENGUARD
RoHS / WEEE / REACH
ErP Lot 3 and Lot 7

⁹The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

¹⁰EPEAT is registered where applicable, please see epeat.net for registration status by country.

Other Certifications

TÜV Rheinland Ultra Low Noise*
TÜV Rheinland Flicker Free
TÜV Rheinland Low Blue Light