

ThinkCentre neo 50a 24 Gen 6 LNL

Built to anchor demanding desk-based workflows, this 23.8-inch AIO empowers non-mobile professionals with Intel V Series Core Ultra 5 / 7 Processor (Series 2) performance on Windows 11 Pro. Backed by 16GB LPDDR5x-8533 memory and up to 1TB M.2 SSD storage on an Intel SoC platform, it handles data analysis, reporting, and multitasking efficiently, while Intel UHD Graphics supports everyday visual workloads. The FHD IPS anti-glare display with 99% sRGB enhances clarity, complemented by HARMAN-tuned speakers, HD Audio, and a 5MP camera for collaboration.



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.

Connectivity further strengthens operational efficiency through Gigabit Ethernet and Wi-Fi 7 with Bluetooth 5.2. Multiple USB-A and USB-C ports, HDMI-in and HDMI-out 2.1 TMDS, and dedicated M.2 slots ensure seamless peripheral integration, fast data transfer, and flexible expansion for evolving professional environments.

Enterprise readiness is reinforced with Firmware TPM 2.0, a Kensington Security Slot, and up to one-year onsite service. Its refined AIO form factor combines reliability, security, and streamlined desk presence for structured, performance-driven workplaces.

Its compact 23.8-inch AIO form factor integrates display and computing components into a single streamlined unit, minimizing cable clutter and desk footprint. With dimensions of 539.5 x 192.1 x 431.17 mm and efficient rear port placement, it maximizes organized workspace utilization.

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

Lenovo Wired ANC Headset Gen 2

- Active Noise Cancellation
- Certified for Zoom and Microsoft Teams
- Inline Control Box with LED Indication



PN: Teams : 4XD1M45627, UC : 4XD1M39029

Lenovo Essential Wireless Combo Keyboard & Mouse Gen 2

- Embrace the freedom of a clutter-free and cable-free work setup.
- Ergonomically sculpted cups and low-profile island keys for maximum comfort.
- A 2.4 MHz receiver for a seamless keyboard and mouse connection.



PN: 4X31N50708 – 4X31N50757

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Performance

Processor

Intel V Series Core Ultra 5 / 7 Processor (Series 2)

Operating System*

Windows 11 Pro

Graphics

Intel UHD Graphics (integrated)

Chipset

Intel SoC (System on Chip) platform

Memory¹

16GB soldered LPDDR5x-8533 MoP

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

Camera*

5.0-megapixel

Power Supply*

135W 90% PSU
90W 89% PSU

Design

Display

23.8" FHD (1920x1080) IPS display, Anti-glare 16:9
- 250nits, 99% sRGB, low blue light, flicker free, optional touch

Form factor

AIO (23.8 inches)

Dimensions³

539.5 x 192.1 x 431.17 mm (21.24 x 7.56 x 16.98 inches)

³The system dimensions may vary depending on configurations.

Weight⁴

Around 6.0 kg (13.23 lbs)

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

Color

Raven black

Expansion Slots

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

Connectivity

Ethernet*

Gigabit onboard Ethernet

WLAN + Bluetooth*⁵

802.11ax (Wi-Fi 7), Bluetooth 5.2
Up to Realtek Wi-Fi 7 RTL8852BE, Bluetooth 5.2

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

Rear ports

1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
2x USB-A (Hi-Speed USB / USB 2.0)
1x HDMI-in
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

Right ports

1x USB-C (USB 10Gbps / USB 3.2 Gen 2)
1x headphone / microphone combo jack (3.5mm)

Security & Privacy

Security

Firmware TPM 2.0 integrated in SoC
Kensington Security Slot

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^{7 8}

ENERGY STAR 9.0*
GREENGUARD
RoHS / WEEE / REACH
ErP Lot 3 and Lot 7

⁷The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

⁸EPEAT is registered where applicable, please see epeat.net for registration status by country.

Other Certifications

TÜV Rheinland Ultra Low Noise*