

ThinkCentre neo 55a 24 Gen 6

Designed to meet the needs of dynamic business environments, the ThinkCentre, powered by the latest AMD Ryzen™ 5 / 7 200 Series or Ryzen™ AI 5 / 7 300 Series processors, delivers the advanced performance and intelligent efficiency that today's business professionals demand. These processors offer exceptional multi-core performance, ideal for multitasking across productivity apps, data-heavy spreadsheets, and collaboration platforms, ensuring users can stay responsive and efficient throughout the workday. Integrated AMD Radeon™ 860M, 740M, or 780M graphics bring superior visual fidelity and acceleration for graphically demanding tasks, seamless video conferencing, and content rendering. With support for up to 32GB DDR5-5600 high-speed memory and up to 1TB M.2 2280 SSD storage, professionals benefit from rapid data access, fast boot times, and a highly responsive experience across applications.



Empowering the modern workforce with a streamlined desktop experience

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

Featuring a crisp 23.8" screen with an FHD display delivers stunning clarity and vibrant visuals, enhancing productivity and reducing eye strain during long workdays. With 250 nits of brightness, the screen ensures clear visibility even in brightly lit office environments, and optional multi-touch functionality offers intuitive, hands-on control for seamless navigation and collaboration.

Whether you're running resource-intensive applications, juggling multiple browser tabs, or engaging in creative endeavors, up to 32GB DDR5-5600 memory and up to 1TB M.2 2280 SSD storage enable smooth transitions and swift responsiveness, without any delays.

The device features 3W dual HARMAN stereo speakers and a dual-microphone array delivering a rich and immersive audio experience whether you're participating in virtual meetings or presenting in online seminars. Additionally, the optional 5MP IR camera with a camera latch delivers sharp video quality while prioritizing user privacy.

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..



Return To Depot Repair Warranty

- No-hassle repair process at a Lenovo service center
- Lenovo pays for all shipping between the customer and service facility
- Avoid unplanned operational expense with a simple annual fee

Accessories

Lenovo Professional Wireless Rechargeable Combo Keyboard and Mouse



- Transform your workspace into a clutter-free, cable-free zone for ultimate productivity.
- The mouse's Optical IR Sensor ensures precise tracking, with 4-way scrolling for smooth, versatile navigation.
- Keyboard layouts are tailored to vary by language, ensuring accessibility and usability for all users.

PN: 4X31K03931 - 4X31K03978

Lenovo Go Wireless Split Keyboard



- Human-inspired true ergonomic split keyboard with tactile and responsive, scissor switch keys
- 13-degrees splay for straight typing, comfortable neck and shoulders
- 11-degrees vertical tenting for more natural typing posture

PN: 4Y41C33748~4Y41C33789



ThinkCentre neo 55a 24 Gen 6

Performance

Processor
AMD Ryzen 5/7 200 Series, or AMD Ryzen AI 5/7 300 Series Processor

Operating System*
Windows 11 Pro
Windows 11 Home

NPU
Integrated AMD Ryzen AI, up to 50 TOPS

Graphics
AMD Radeon 740M Graphics (Integrated)
AMD Radeon 780M Graphics (Integrated)
AMD Radeon 840M Graphics (Integrated)
AMD Radeon 860M Graphics (Integrated)

Chipset
AMD SoC (System on Chip) platform

Memory^{1 11}
Up to 32GB DDR5-5600

¹Installed memory is actually LPDDR5x-8533 but runs as LPDDR5x-7467 due to platform limitation.

¹¹The max memory is based on the test results with current Lenovo memory offerings.

Storage^{2 1 2}
One drive, up to 1TB M.2 SSD

²The storage capacity supported is based on the test results with current Lenovo storage offerings.

¹The storage capacity supported is based on the test results with current Lenovo storage offerings.

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 89% adapter
90W 90% adapter

Design

Display^{4 3}
23.8" FHD (1920x1080) IPS display, Anti-glare 16:9
- 250nits, 99% sRGB, low blue light, flicker free, optional touch

⁴IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

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

Form factor
AIO (23.8 inches)

Dimensions^{5 4 3}
539.5 x 192.1 x 431.17 mm (21.24 x 7.56 x 16.98 inches)

⁵The system dimensions may vary depending on configurations.

⁴The system dimensions may vary depending on configurations.

³The system dimensions may vary depending on configurations.

Weight^{6 5 4}
Around 6.0 kg (13.23 lbs)

⁶The system weight is approximate and may vary depending on configurations

⁵The system weight is approximate and may vary depending on configurations

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

Color
Luna grey

Bays
No bays

Expansion Slots
One M.2 slot (for WLAN)
Two M.2 slots (for SSD)

Connectivity

Ethernet*
Gigabit onboard Ethernet

WLAN + Bluetooth*^{6 5 6}
802.11ax (Wi-Fi 6), Bluetooth 5.3 or Bluetooth 5.4

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

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

⁶Wi-Fi 6 operation is subject to the regulation rules in each country. Bluetooth 5.3/5.4 require the supported Windows OS.

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 2.1TMDS
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
Kensington Security Slot

Lenovo services

Base Warranty
Up to 1-year limited onsite service

Certifications

Green Certifications^{7 8 9 8 9 10 8 9}
ENERGY STAR 9.0*
EPEAT Gold Registered*
ErP Lot 3/7
GREENGUARD
RoHS / WEEE / REACH

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

⁸EPEAT registration and ENERGY STAR certification are optional and only available on the models with preloaded OS.

⁹EPEAT is registered where applicable, please see epeat.net for registration status by country.

⁸The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

⁹EPEAT registration and ENERGY STAR certification are optional and only available on the models with preloaded OS.

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

⁸The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

⁹EPEAT is registered where applicable, please see epeat.net for registration status by country.

Other Certifications
TÜV Rheinland Flicker Free
TÜV Rheinland Low Blue Light
TÜV Rheinland Ultra Low Noise

Items with * are optional and only available on selected models. Information presented here may represent the maximum possible configurations for this product, but it does not necessarily reflect what is available in your region. Please ask your rep or check the specifications for specific Part Numbers in your region. © 2025 Lenovo. Products are available while supplies last. Lenovo is not responsible for photographic or typographic errors. Lenovo, the Lenovo logo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo. 3rd party product and service names may be trademarks of others. Depending on factors such as the processing capability of peripheral devices, file attributes, system configuration and operating environments, the actual data transfer rate of USB connectors will vary and is typically slower than published standards.