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

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

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

Chipset
AMD SoC (System on Chip) platform

Memory [1]
Up to 32GB DDR5-5600

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

Storage [2]
One drive, up to 1TB M.2 SSD

[2]*The 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
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)

Dimensions [3]
539.5 x 192.1 x 431.17 mm (21.24 x 7.56 x 16.98 inches)

[3]*The system dimensions may vary depending on configurations.*

Weight [4]
Around 6.0 kg (13.23 lbs)

[4]*The 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* [5] [6]
802.11ax (Wi-Fi 6), Bluetooth 5.3 or Bluetooth 5.4

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

[6]*Wi-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 2.1 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
Kensington Security Slot

Lenovo services

Base Warranty
Up to 1-year limited onsite service

Certifications

Green Certifications [8] [9]
ENERGY STAR 9.0*
EPEAT Gold Registered*
ErP Lot 3/7
GREENGUARD
RoHS / WEEE / REACH

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

[9]*EPEAT 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