

# ThinkCentre neo 50s Gen 6

Designed for seamless multitasking and intelligent performance, this desktop leverages the power of the Intel® Core™ Ultra 7 Processor with up to 20 cores, delivering remarkable speed and efficiency. Integrated Intel® AI Boost with over 10 TOPS accelerates data-driven workflows, helping professionals tackle complex tasks like data analysis or content creation effortlessly. With up to 64GB DDR5 memory, heavy applications run smoothly without lag, while Wi-Fi® 7 ensures ultra-fast, reliable connectivity, perfect for collaborative projects and cloud-based tools that demand uninterrupted bandwidth.



## 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.

Creative and design professionals benefit from NVIDIA® GeForce RTX™ 6GB graphics, which bring high-quality visuals and rendering to life. With support for up to two independent displays and versatile ports including USB-A, USB-C, DisplayPort, and HDMI, multitasking and presentations become effortless.

Secure and expandable, the desktop offers up to 2TB SSD storage for fast access, along with TPM 2.0 and Kensington® Security Slot™ protection. Optional Smart Cable Clip and chassis intrusion switch add practical safeguards for peace of mind.

With its compact SFF form factor of just 8.2L, the desktop maximizes workspace efficiency, fitting seamlessly into office environments while freeing up valuable desk space without sacrificing performance or functionality for professional tasks.

## 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 Go Wired Speakerphone

- Microsoft Teams certified, omni-directional far-field 2x microphones array
- Portable plug-and-play capabilities and effortless PC UC support
- Comes with intuitive control with volume wheel, tactile keys, and readable LEDs



PN: 4XD1C82055, GXD1C82051

# ThinkCentre neo 50s Gen 6

## Performance

### Processor

Intel Core Ultra 3 / 5 / 7 Processor (Series 2)

### Operating System\*

Windows 11 Pro or Home  
Windows 11 Home Single Language  
Ubuntu Linux  
No preload operating system

### Graphics

Intel Arc A310 LP Graphics  
NVIDIA GeForce RTX 3050  
Intel UHD Graphics (integrated)

### Chipset

Intel B860 chipset

### Memory

Up to 64GB DDR5-5600, two SODIMM slots

### Storage

Up to three drives, 1x 3.5" HDD + 2x M.2 SSD  
· 3.5" HDD up to 2TB  
· M.2 SSD up to 1TB each

### Optical\*

DVD-ROM or DVD±RW\*

### Audio\*

High Definition (HD) Audio  
Single speaker, 1W x1\*

### Power Supply\*

200W 90% adapter  
260W 90% adapter

## Design

### Form factor

SFF (8.2L)

### Dimensions

92.5 x 291.7 x 339.5 mm (3.6 x 11.5 x 13.4 inches)

### Weight

Around 4.33 kg (9.55 lbs)

### Color

Raven Black

### Bays

1x 3.5" disk bay

### Expansion Slots

One PCIe 4.0 x16, low-profile, length ≤ 155mm, height ≤ 70mm  
One PCIe 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm  
Three M.2 slots (one for WLAN, two for SSD)

## Connectivity

### Ethernet\*

Gigabit onboard Ethernet

### WLAN + Bluetooth\*

802.11ax (Wi-Fi 6), 802.11ax (Wi-Fi 6E) or 802.11be (Wi-Fi 7), Bluetooth 5.2, 5.3 or 5.4  
up to Realtek Wi-Fi 7 RTL8922AE, 802.11be, Bluetooth 5.4

### Front ports

1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with 15W charging  
2x USB-A (USB 5Gbps / USB 3.2 Gen 1)  
1x headphone / microphone combo jack (3.5mm)  
1x microphone (3.5mm)

### Rear ports

2x USB-A (Hi-Speed USB / USB 2.0)  
2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On  
1x HDMI 2.1 TMDS  
1x DisplayPort 1.4i  
x Ethernet (RJ-45)  
1x line-out (3.5mm)  
1x USB-A (Hi-Speed USB / USB 2.0)  
2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via 2-port USB expansion card, PCIe x1  
1x parallel  
1x serial  
1x 2nd serial

## Security & Privacy

### Security

Discrete TPM 2.0  
Smart Cable Clip\*  
Kensington Security Slot  
Padlock Loop  
Chassis Intrusion Switch\*

## Manageability

### System Management\*

Non-vPro

## Environmental

### Material

85% post-consumer content (PCC) recycled acrylonitrile butadiene styrene (ABS) used in the chassis  
90% PIC recycled plastic EPE cushion  
30% ocean-bound plastic (OBP) used in the device bag  
Forest Stewardship Council (FSC) certified carton

## Lenovo services

### Base Warranty

Up to 1-year limited onsite service

## Certifications

### Green Certifications

ENERGY STAR 9.0\*  
EPEAT Gold Registered\*  
RoHS / WEEE / REACH

### Other Certifications

TÜV Rheinland Low Noise\*  
TÜV Rheinland Ultra Low Noise\*