

# ThinkCentre M90a Gen 3

This compact all-in-one desktop is purposefully designed for the modern minimalist workspace. A 23.8" full HD near borderless display powered by high-performance Intel UHD graphics and optional NVIDIA GeForce renders stunning visuals while designing or editing different types of content and 3D images. Powerful by up to 12th Intel processors with up to 16 cores, it makes working on hardware-intensive tasks and multitasking a breeze. Comes with customizable security solutions for comprehensive, end-to-end protection of critical data.



Users can choose the optional dual-array microphones and an optional 5 MP camera for immersive call or meeting experiences from anywhere. It also has the optional ThinkShutter camera cover to protect user privacy.

Security features include individual USB port disablement, and a self-healing BIOS which can restore itself in the event of a BIOS update failure or if maliciously attacked.

Optimized to reduce power consumption with Energy Star 8.0 and EPEAT Silver (optional) energy efficiency certifications.

## Mainstream computing for a variety of business uses

ThinkCentre M Series All-in-One devices offer powerful configurations, space-saving design and enterprise security and manageability features.

## 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..



### Premier Support

Talk directly with advanced technical support agents  
Support for software & hardware  
Next business day onsite repairs

## Accessories

### Lenovo Adjustable Height Arm

Reduce neck & back pain by positioning a VESA-compatible monitor, ThinkCentre M AIO or Lenovo V Series AIO, to the most comfortable height and angle

Extends display out to a range of 64cm (25"), with height adjustment up to 33cm (13")

Can be fitted to desk via a clamp without drilling holes



PN: 4XF0H70603

### Lenovo 500 FHD Webcam

1080p resolution web camera with 75° field-of-view and 4x digital zoom

Flexible mounting mechanism can easily clip onto a laptop, all-in-one or monitor

Integrated IR sensor supporting Windows Hello secure login



PN: 4XC0V13599

# ThinkCentre M90a Gen 3

## Performance

### Processor

Intel Celeron, Pentium, or 12th Gen Core i3 / i5 / i7 / i9

### Operating System

Windows 11 Pro  
Windows 11 Home  
Windows 11 Home Single Language  
Windows 11 DG Windows 10 Pro 64

### Graphics

Intel UHD graphics 710 / 730 / 770 (Integrated)  
NVIDIA GeForce MX550

### Chipset

Intel Q670 Chipset

### Memory <sup>1</sup>

Up to 64GB DDR4-3200, two SO-DIMM slots

<sup>1</sup>The max memory is based on the test results with current Lenovo memory offerings. The system may support more memory as the technology develops.

### Storage <sup>2</sup>

Up to three drives, 2x 2.5" HDD + 1x M.2 SSD  
2.5" HDD up to 2TB each  
M.2 SSD up to 1TB  
RAID 0/1 support for HDDs

<sup>2</sup>The max capacity of each disk type is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

### Optical

DVD-ROM or DVD±RW\*

### Audio

High Definition (HD) Audio  
Stereo speakers (3W x2), Dolby Atmos  
Dual-microphone array\*

### Camera

5M RGB & IR hybrid / 5M RGB\*

### Power Supply

230W 92%, 180W 90% PSU

## Design

### Display

23.8" FHD (1920x1080) IPS display, , Anti-glare, 16:9  
- Borderless design, support low blue light mode, optional 10-point touch

### Form factor

AIO (23.8 inches)

### Dimensions <sup>3</sup>

Starting from:  
539.6 x 216.32 x 367.13 mm  
21.24 x 8.52 x 14.45 inches

<sup>3</sup>The system dimensions may vary depending on configurations.

### Weight <sup>4</sup>

Starting from 8.235 kg (18.15 lbs)

<sup>4</sup>The system weight is approximate and may vary depending on configurations

### Color

Black

### Bays

2x 2.5" disk bay (2nd 2.5" HDD occupies ODD bay\*)  
1x slim ODD bay

### Expansion Slots

Two M.2 slots (one for WLAN, one for SSD)

## Connectivity

### Ethernet

Gigabit onboard Ethernet

### WLAN + Bluetooth

802.11ac (Wi-Fi 5) or 802.11ax (Wi-Fi 6 / Wi-Fi 6E),  
Bluetooth 5.1  
up to Intel Wi-Fi 6E AX211 11ax Bluetooth 5.1

### Rear ports

3x USB 3.2 Gen 1  
1x USB-C 3.2 Gen 2 (support data transfer and 15W charging)  
1x HDMI (HDMI in 1.4 / HDMI out 2.1 TMDS combo port)  
1x DisplayPort 1.4  
1x Ethernet (RJ-45)  
1x serial\*

### Right ports

3x USB 3.2 Gen 2  
1x headphone / microphone combo jack (3.5mm)  
1x card reader\*

## Security & Privacy

Discrete TPM 2.0  
Kensington Security Slot  
Chassis Intrusion Switch\*  
Touch style fingerprint reader on mouse\*  
ThinkShutter camera cover\*

## Manageability

Intel vPro Enterprise\*

<sup>5</sup>Intel vPro offers a superset of DASH's defined capabilities.

## Lenovo services

Up to 3-year limited onsite service

## Certifications

### Green Certifications <sup>6</sup>

EPEAT Gold Registered\*  
ENERGY STAR 8.0\*  
ErP Lot 3  
TCO Certified 9.0  
TCO edge  
RoHS compliant

<sup>6</sup>The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

### Other Certifications

TÜV Rheinland Flicker Free  
TÜV Rheinland Low Blue Light  
TÜV Rheinland Ultra Low Noise\*  
MIL-STD-810H