

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.



Rugged compact performance primed for business

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

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.

Minimal preloaded applications mean a more responsive device for users, and faster deployment for IT admins.

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

Memory¹

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

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

Storage^{1 2}

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

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.

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

Display³

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

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

Form factor

AIO (23.8 inches)

Dimensions^{4 3}

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

⁴The system dimensions may vary depending on configurations.

³The system dimensions may vary depending on configurations.

Weight^{5 4}

Starting from 8.235 kg (18.15 lbs)

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

⁴The 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^{* 6 7}

802.11ac (Wi-Fi 5) or 802.11ax (Wi-Fi 6 / Wi-Fi 6E), up to Bluetooth 5.3
up to Intel Wi-Fi 6E AX211, 802.11ax, Bluetooth 5.3

⁶Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

⁷Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

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

Security

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

Manageability

System Management^{* 5}

Intel vPro Enterprise^{*}

⁵Intel vPro offers a superset of DASH's defined capabilities.

Lenovo services

Base Warranty

Up to 3-year limited onsite service

Certifications

Green Certifications^{8 9 10 6}

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

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 dependent on system OS.

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

⁶The 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