

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.



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.

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.

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

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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 [1]
Up to 64GB DDR4-3200, two SO-DIMM slots

[1]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 [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

[2]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 [3]
Starting from:
539.6 x 216.32 x 367.13 mm
21.24 x 8.52 x 14.45 inches

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

Weight [4]
Starting from 8.235 kg (18.15 lbs)

[4]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*

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

Lenovo services

Up to 3-year limited onsite service

Certifications

Green Certifications [6]
EPEAT Gold Registered*
ENERGY STAR 8.0*
ErP Lot 3
TCO Certified 9.0
TCO edge
RoHS compliant

[6]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

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. © 2023 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.