

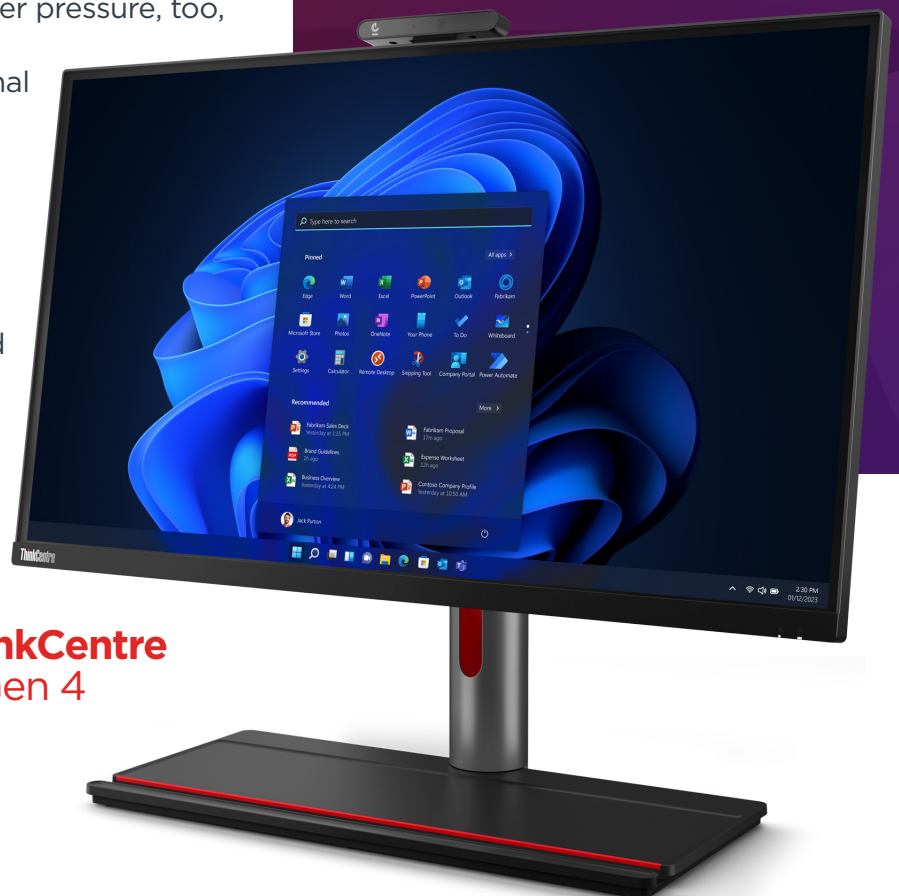
Lenovo ThinkCentre

Powered by Intel vPro® Enterprise with the latest Intel® Core™ i9 processors for exceptional performance, enhanced connectivity, and AI acceleration, the innovative Lenovo ThinkCentre M90a Pro Gen 4 is the industry's most premium all-in-one desktop. A massive 27-inch vivid and luminous display, impressive NVIDIA® RTX™ 4050 graphics, and high-speed data transfer with Intel® Thunderbolt™ 4 makes this AIO a must-have for the modern workforce.

Pair this Lenovo ThinkCentre with the secure and innovative ThinkPhone by Motorola to boost productivity—you can seamlessly text, answer calls, and share files between your PC and ThinkPhone or Android smartphone. Plus, the latest Human Presence Detection based on radar sensor delivers unmatched AI-powered security with zero-touch login and logout, as well as an AI-powered privacy filter. This ThinkCentre stays cool under pressure, too, with the efficient Intelligent Cooling Engine (ICE) 6.0 that maintains optimal temperatures for high-performance computing while controlling power consumption. Equipped with end-to-end Lenovo ThinkShield and the unique silicon-level security of the Intel vPro® platform, this Lenovo ThinkCentre AIO safeguards data and assets to minimize cyber risks.

Smarter
technology
for all

Lenovo



Lenovo ThinkCentre
M90a Pro Gen 4



Lenovo ThinkCentre M90a Pro Gen 4



POWERFUL PRODUCTIVITY

This Lenovo ThinkCentre AIO delivers world-class business PC solution thanks to Intel vPro® platform with the latest Intel® Core™ i9 processor, up to 1.25x the industry average—and a 1.54x improvement over the previous model.¹ With top GPU graphics power, with Nvidia RTX 4050 (optional), up to 64GB DDR5 memory, and storage that includes M.2 SSD x 2, 2.5" HDD x 1, and ODD, you'll never press pause on productivity.



PREMIUM DISPLAY

Bigger, better, and brighter, this Lenovo ThinkCentre boasts a 27" QHD display with industry-leading color calibration for mirrored color response and real-life capture. This exceptional display is also designed with customer health in mind, with Eyesafe Certification for a low blue light and flicker-free experience. Plus, the innovative conference call base, phone-docking bar, and built-in cord management based reveal the intentional detail of how an AIO should be.



UNHINDERED COLLABORATION

In addition to the Thunderbolt 4 port, the Lenovo ThinkCentre M90a Pro Gen 4 also offers an optional Thunderbolt 3 port². This distinctive port allows users to share the panel as a Thunderbolt monitor or share a second M.2 SSD to laptop or PC with super-high speed through the included USB-C cable. Using the seamless connection between your ThinkCentre and ThinkPhone by Motorola, you can copy, paste, and drag-and-drop files between the phone and your desktop, as well as stream your favorite apps, respond to texts, and see important notifications—all with the relentless protection of multilayer security.



MODERN USER EXPERIENCE

This Lenovo ThinkCentre AIO supplies AI privacy using next-gen Human Presence Detection with radar sensor and the RGBIR camera for more secure zero-touch login/logout and privacy filter. Plus, Intel® Dynamic Tuning delivers Energy Performance Optimizer, with machine learning to classify workload characteristics, significant energy savings, and improved performance. The Lenovo Conference Call Base speakerphone has been approved for the Microsoft Teams Personal Peripherals Certification Program, delivering industry-leading VOIP group conferencing with quad-array mics for 360-degree far-field pickup and four Harman speakers.



Conference Call Base

4 DMIC array + AI algorithm

- 4.5m 360-degree far-field voice capture
- Echo cancellation & AI noise suppression

3W x 4 Harman speakers

- 4.5m long-distance playback
- Crystal-clear, clean audio, fine-tuned for the human voice

Physical button & LED indicator

- One-press button to invoke TEAMS app
- Meeting status indicator

Standard USB Type-C interface



¹ Based on Cinebench R23 test results by Lenovo RD lab.

² Please note this is not a Thunderbolt host port. Customers can connect this optional port to a laptop or desktop Thunderbolt port with a single full-function Type C cable (included).

Lenovo ThinkCentre M90a Pro Gen 4

Services

Lenovo offers a comprehensive portfolio of end-to-end services to support and protect your investment—so you can focus on the job at hand, not IT.



PREMIER SUPPORT PLUS

Whether employees are in the office, hybrid, or remote-based, Premier Support Plus helps CIOs provide their organization's workforce with the support to do their best work, while freeing IT teams from the break/fix burden. Get the highest level of support, including Lenovo expert engineers for a seamless remote fix; next business day onsite labor and parts prioritization (dependent on market, parts and HW availability); Accidental Damage Protection for inevitable mishaps such as drink spills; Keep Your Drive; sealed battery coverage; and more. Lenovo's human-centered approach is designed to meet support needs 24/7/365, and our proactive and predictive issue detection helps solve issues before they happen.



CO₂ OFFSET SERVICES

Lenovo CO₂ Offset Services estimates CO₂ emissions across the average lifecycle of your device, from manufacture to daily use to end of life, and gives you the option to offset them by supporting verified United Nations, CDM, Climate Action Reserve, and Gold Standard® climate action projects. With access to a personalized sustainability dashboard, you will also be able to view details of the project, measure the total offsets across your IT fleet, and have full transparency of the contribution you are making toward the environment.



ASSET RECOVERY SERVICE

This single-source solution helps manage your end-of-life IT assets. Through certified recycling, reuse, and refurbishment of your assets, a dedicated Lenovo team will work with you to mitigate the environmental impact and data security risks of your IT hardware, no matter the brand.

Accessories

Lenovo Wireless Professional Rechargeable Combo Keyboard and Mouse

Enhance any workflow with the unmatched capabilities of a 3-zone full-size keyboard and a bio-rubber coated mouse sporting 5 programmable buttons plus dynamic scrolling technology. This combo pairs up to three devices via a unified pairing receiver or Bluetooth, delivers convenient to charge through USB-C unified interface, and uses sustainable materials, with 65% of recycled plastics on its cover.



Lenovo Fingerprint Biometric USB Mouse Gen 2

The Lenovo Fingerprint Biometric USB Mouse offers enhanced input functionality with an integrated fingerprint sensor for password-free authentication. It features a 1600dpi resolution with an optical sensor for precise tracking and an ambidextrous design for more fluid control and ergonomics.



Lenovo Go Wireless ANC Headset

This Microsoft Teams-certified headset boasts advanced active-noise cancelling (ANC) and environmental-noise cancelling (ENC) technology. Now, everything sounds crisper and clearer, regardless of background noise. Engineered for Intel® Evo™ devices, this headset helps optimize communication, productivity, and collaboration with native Bluetooth.



Lenovo ThinkCentre M90a Pro Gen 4

performance

PROCESSOR

Intel vPro® with up to 13th Gen Intel® Core™ i9 processor

OPERATING SYSTEM

Windows 11 (Home & Pro)
Windows 11 Downgrade (Pro)

GRAPHICS

Intel® UHD Graphics 770/730/710
NVIDIA RTX 4050 dGPU (optional)

MEMORY

Up to 64GB DDR5

STORAGE

Up to 2x M.2 SSD 256GB/512GB/1TB
1x 2.5" HDD 1TB (optional)
1x ODD

CPU

65W, Intel® Dynamic Tuning Technology Optimization

POWER

230w 92%

display

PANEL SIZE

27" Near Edgeless

RESOLUTION

QHD (2560 x 1440)

PANEL TYPE

In-Plane Switching

REFRESH RATE

60Hz

CONTRAST RATIO (TYPICAL)

1000:1

BRIGHTNESS

350 cd/m²

RESPONSE TIME (ON/OFF)

14ms

COLOR GAMUT

sRGB 99%

COLOR SUPPORT

16.7M

VIEW ANGLE (H/V)

178/178

ANTI-GLARE

Yes

connectivity

SIDE IO

1x Thunderbolt 4
1x Thunderbolt 3 (optional)¹
2x USB-A 3.2 Gen 2
3-in-1 card reader (optional)
1x combo audio jack

REAR IO

1x USB-C 3.2 Gen 2 (rapid charge)
3x USB 3.2 Gen 1 (one supports USB power on)
1x DP 1.4 out
1x HDMI 2.1 TMDS out and HDMI in 1.4 combo
1x Intel® Ethernet

INTERNAL BAY

1x 2.5" HDD
1x Slim ODD
M.2 Slot (1 for Wi-Fi, 2 for PCIe Gen 4 SSD)

WI-FI

Intel® Wi-Fi 6E² 2x2 AX (optional)
Intel® Wi-Fi 6 2x2 AX (optional)

design

DIMENSIONS

Non-stand: 613.6 x 383.4 x 54.5 mm /
24.16 x 15.09 x 2.15 in

With Ultra-Flex V Stand: Starting at 613.6 x 461.4 x
252.6 mm / 24.16 x 18.17 x 9.94 in

With Full-function Stand: Starting at 613.6 x 521.8 x
219.8 mm / 24.16 x 20.54 x 8.65 in

WEIGHT

Non-stand: 7.75 kg / 17.09 lb

With Ultra-Flex V Stand: 10.77kg / 23.74 lb

With Full-function Stand: 11.21kg / 24.71 lb

DISPLAY STAND FUNCTIONALITY

Full-function Stand (Tilt: -5° to 20°; Lift: 110 mm;
Pivot: 90°; Swivel: 90°, 45° left and 45° right)

Ultra-Flex V Stand (Tilt: -5° to 70°; Lift: 70° ± 2°
with vertical lift range of 84.37 mm)

Non-Stand (CTO)

MECHANICAL PERIPHERALS

Full-function monitor stand (optional)

Ultra-Flex Stand (optional)

Non-Stand (customer-to-order)

EASE OF USE (TOOLLESS REMOVAL)

Stand / Rear cover / MB shielding / HDD / Memory

SPEAKER

5Wx2 with Dolby Atmos®

Conference call base (optional)

CAMERA/MIC

5M RGBIR + Radar sensor (HPD gen 2)

5M RGBIR

5M RGB

AI Noise Suppression (Intel® GNA)

security

Human Presence Detection
2.0 Sensor

EC Self-healing (level 2)

BIOS-based Smart USB Protection

Intel® Context Sensing Technology
(Intel® CST)

Intel vPro® Enterprise

dTPM 2.0

Kensington™ slot

Intrusion Switch (optional)

Webcam privacy shutter

Windows Hello™

Mic-mute button and LED indicator

certifications

TÜV Rheinland Eyesafe

TÜV Rheinland Flicker Free

Ultra-Low Noise

12 MIL-SPECS

TCO Edge

Anti-dust

ESG-related certifications & spec

EPEAT GOLD

Energy Star 8.0

TCO 9.0

RoHS



Lenovo

¹Please note this is not a Thunderbolt host port. Customers can connect this optional port to a laptop or desktop Thunderbolt port with a single full-function Type C cable (included).

²6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications and spectrum allocation.

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