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.
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).
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

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.
# Lenovo ThinkCentre

## M90a Pro Gen 4

### Performance

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel vPro® with up to 13th Gen Intel® Core™ i9 processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 11 (Home &amp; Pro) Windows 11 Downgrade (Pro)</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel® UHD Graphics 770/730/710 NVIDIA RTX 4050 dGPU (optional)</td>
</tr>
<tr>
<td>Memory</td>
<td>Up to 64GB DDR5</td>
</tr>
<tr>
<td>Storage</td>
<td>Up to 2x M.2 SSD 256GB/512GB/1TB 1x 2.5'' HDD 1TB (optional) 1x ODD</td>
</tr>
<tr>
<td>CPU</td>
<td>65W, Intel® Dynamic Tuning Technology Optimization</td>
</tr>
<tr>
<td>Power</td>
<td>230w 92%</td>
</tr>
</tbody>
</table>

### Connectivity

| Side IO | 1x Thunderbolt 4 1x Thunderbolt 3 (optional) 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 |
| Memory | 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
- EPEAT GOLD
- Energy Star 8.0
- TCO 9.0
- RoHS

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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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