

Lenovo ThinkCentre

Powered by the Intel® Core™ Ultra processor for up to 260 TOPS AI performance with heterogeneous computing architecture, the Lenovo ThinkCentre M90a Gen 6 all-in-one (AIO) delivers uncompromised productivity across industries. On-device AI capabilities, including Lenovo AI Now and Lenovo AI Turbo Engine, enhance collaboration and security, while robust ThinkShield security with Human Presence Detection 2.0 further elevate online defenses. And with up to 64G DDR5 memory and support for up to 6TB SSD storage, data-heavy tasks are easily tackled.

The 23.8" high-contrast FHD screen with optional touch is ideal for POS and kiosk application. With IP55 certification¹, this display can always stay clean and sanitized to optimize functionality and health. Next-gen stand options and Eye Safe® certification combine to ensure ergonomic comfort during those long workdays. The Lenovo ThinkCentre M90a Gen 6 also helps you keep your cool, with the efficient Intelligent Cooling Engine (ICE) 7.0 that maintains optimal temperatures for high-performance computing while controlling power consumption.

Lenovo ThinkCentre M90a Gen 6



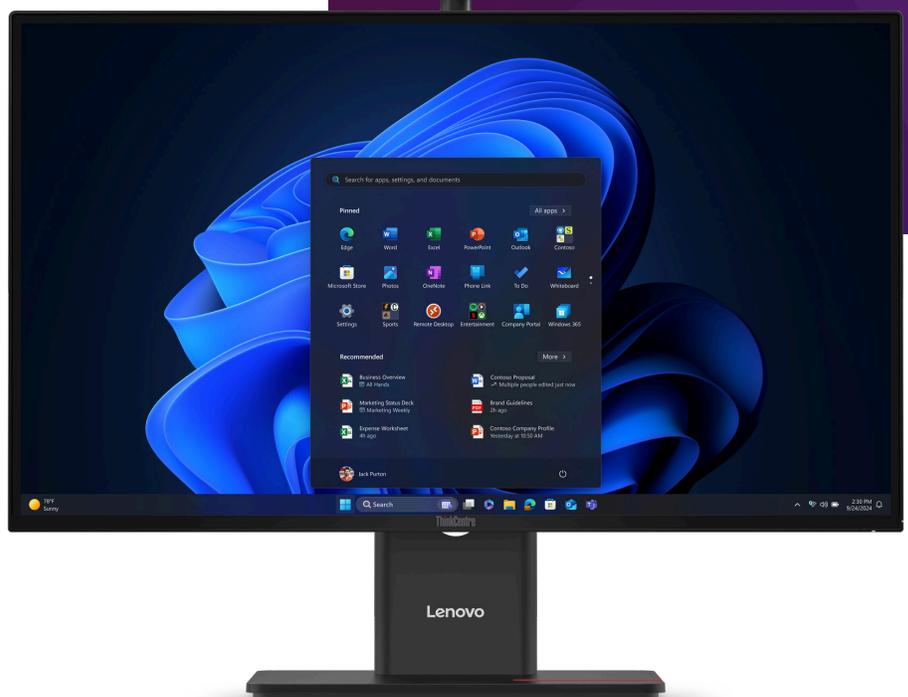
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AI PCs built for business

¹ Touch, front face only

Smarter
technology
for all

Lenovo



Lenovo ThinkCentre M90a Gen 6



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M90a Gen 5

M90a Gen 6

Gen-to-Gen

Platform, Processor & Chipset	Intel vPro® / Up to 14th Gen Intel® Core™ i7-14700 (65W) / Intel® Q670	Intel vPro® / Up to Intel® Core™ Ultra 9 processor (65W performance line) / Intel® Q870	Industry-leading AI and XPU performance and efficiency. Up to 19%* improved CPU performance
Side I/O	3x USB-A 3.2 Gen2; 3-in-1 Card Reader (optional); 1x combo audio jack	1x Thunderbolt 4 (full function/ 65W PD); 1x USB-A 3.1 Gen2; 1x USB-C 3.2 Gen2; 3in1 Card Reader (optional); 1x combo audio jack	Native Thunderbolt 4 support and Thunderbolt™ Share software to improve device collaboration and productivity
Display Panel	23.8" WVA, FHD 250nits; optional AIT Touch; 60Hz refresh rate; 1000:1 contrast ratio	23.8" FHD 4-sided like-borderless, optional OGM Touch; 120Hz refresh rate; 1500:1 contrast ratio	Contrast and refresh ratio upgrade to create a more premium experience
Wi-Fi	Up to Intel® Wi-Fi 6/6E	Up to Intel® Wi-Fi 7 (5 Gig)	Lower latency and improved efficiency
Sustainability	ENERGY STAR® 8.0 ¹ , TCO Certified 9.0	ENERGY STAR® 9.0 ¹ , TCO Certified 10.0	Improved environmental certifications

M90a Gen 6 stand options



Full-function Stand



Tilt-only Stand



Ultra-Flex V Stand

*Based on Lenovo internal testing
¹ Optional

Lenovo ThinkCentre M90a Gen 6



INTELLIGENT PERFORMANCE

This Lenovo ThinkCentre AIO provides industry-leading AI and XPU performance powered by Intel® Core™ Ultra processor with Intel® AI Boost, along with integrated Intel® Graphics or optional NVIDIA RTX™ 4050 Graphics with 6GB gDDR6 memory. The Intel vPro® platform helps maximize all levels of AI computing, fuels operational excellence, and helps organizations achieve better business outcomes. Cost-efficient on-device access to AI models not only personalizes learning over time, but also minimizes risk around storing and using AI on the cloud. Plus, built-in Lenovo AI Now features boost AI acceleration for a productive, personalized, and protected experience.



ENHANCED EXPERIENCE

The ThinkCentre M90a Gen 6 meets the demands of the modern workforce, with super-fast and secure Intel® Wi-Fi 6, 6E, and 7 connectivity so you never have to hit pause on productivity. With a four-sided like-borderless view, the 23.8" FHD display with optional OGM touch delivers Eyesafe 2.0 Certification for a low blue light and a flicker-free experience. Robust certifications ensure reliability and durability, including IP55 (Ingress Protection) certification¹ for water and dust resistance, plus industry-unique healthcare compliance for user and patient safety. Choose among three different stands, including full-function, ultra-flex, and tilt-only, adding to the versatility to this dynamic AIO design.



ELEVATED COLLABORATION

Get crystal-clear virtual conferencing with AI noise suppression technology, immersive Dolby Atmos sound, and both front-facing and rear-facing cameras. And thanks to the AI-driven collaboration features of Lenovo AI Now, you'll experience a more natural online interaction whether participants are across town or around the world. Onboard Thunderbolt Share lets you sync your AIO, laptop, smartphone, and peripherals for multi-device collaboration to keep ideas flowing seamlessly. Enjoy super high-speed data transfer via Thunderbolt™ 4 (up to 40Gbps), DDR5 memory, and up to 64GB storage. Plus, with AI-accelerated Human Presence Detection 2, you'll never have to fear unwanted meeting participation from shoulder-surfing data thieves.



INTENTIONAL SUSTAINABILITY

Not only is the Lenovo ThinkCentre M90a Gen 6 engineered to be energy efficient with EPEAT GOLD, TCO 10.0, and Energy Star 9.0 certifications, it's also built with 85% PCC material. Committed to industry-leading sustainability practices, Lenovo plans by 2025 to use 100% post-consumer recycled materials in the manufacturing of its PC products.



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¹ Touch screen, front face only

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Lenovo ThinkCentre M90a Gen 6

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 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 VoIP Headset

Get guaranteed performance and unmatched comfort with a lightweight 140g design, patented adaptive headband, and plush memory foam ear cups with premium leatherette for a custom fit. Certified for Microsoft Teams Open Office, this headset ensures clear, reliable communication and seamless connectivity with multipoint Bluetooth® technology.



PN: 4XD1M80020

Lenovo Professional Wireless Rechargeable Combo Keyboard and Mouse

Experience enhanced productivity with this full-size keyboard featuring smooth scissor switches and a bio-rubber mouse with a 4,000 DPI sensor for all-day comfort. With exterior casing made from 65% recycled materials, this combo delivers on both performance and sustainability.



PN: 4X31K03931

Kensington MicroSaver DS 2.0 Cable Lock from Lenovo

With a compact 10mm lock head, anti-pick Hidden Pin™ Technology, and T-Bar™ Locking, this lock provides advanced PC security. Its durable carbon steel cable resists cutting and can be anchored to a fixed structure for strong protection.



PN: 4XE1L68273

Lenovo ThinkCentre M90a Gen 6

performance

PROCESSOR

Up to Intel® Core™ Ultra 9 processor on the Intel vPro® platform

OPERATING SYSTEM

Windows® 11 Pro
Windows® 11 Home
Windows® 11 Home Single Language
No preload operating system

GRAPHICS

Integrated Intel® Graphics
NVIDIA RTX 4050 dGPU¹

NPU

Integrated Intel® AI Boost, up to 13 TOPS
Discrete NPU card, up to 30 TOPS¹

MEMORY

Max memory: up to 64GB DDR5-5600
Memory slots: 2xDDR5 SODIMM slots, dual-channel capable

STORAGE

Up to 3x M.2 SSD 256GB/512GB/
1TB/2TB
1x ODD¹ (external modular)

CPU

65W, Intel® Dynamic Tuning
Technology Optimization

INTERNAL PSU

180W for UMA
230W for dGPU

display

PANEL SIZE

23.8" 4-side like-borderless

RESOLUTION

FHD

PANEL TYPE

In-Plane Switching

TOUCHSCREEN

OGM (One Glass Metal mesh) multi-touch, supports 10-point touch

REFRESH RATE

120Hz

CONTRAST RATIO (TYPICAL)

1500:1

BRIGHTNESS

250 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 headphone / microphone combo jack (3.5mm)
1 x Thunderbolt4 (Full function, up to 65W power delivery)
1x USB-C* (USB 10Gbps / USB 3.2 Gen 2), support data transfer and 5V@3A charging
1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
3-in-1 card reader¹

REAR IO

2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On
1x HDMI* (HDMI* in 1.4 / HDMI* out 2.1 TMDS combo port)
1x DisplayPort™ out
1x Ethernet (RJ-45)
1 x serial¹

EXPANSION SLOTS

4x M.2 slots (one for WLAN, three for SSD / discrete NPU)

ODD

1x Slim ODD¹ (external modular)

WI-FI

Intel® Wi-Fi 7 2x2 AX¹
Intel® Wi-Fi 6E 2x2 AX¹
Intel® Wi-Fi 6 2x2 AX¹

design

DIMENSIONS

Non-stand:
539.6 x 340.2 x 49.55 mm / 21.24 x 13.39 x 1.95 in
With Ultra-Flex V Stand: Starting at
539.6 x 333.45 x 224.10 mm / 21.24 x 13.13 x 8.82 in
With Full-function Stand: Starting at
539.6 x 393.01 x 222.21mm / 21.24 x 15.67 x 8.75 in
With Tilt-only Stand: Starting at
539.6 x 442 x 213.14 mm / 21.24 x 17.4 x 8.39 in

WEIGHT

Non-stand: 6 kg / 13.23 lb
With Ultra-Flex V Stand: 8.04kg / 17.73 lb
With Full-function Stand: 8.96kg / 19.75 lb
With Tilt-only Stand: 8kg / 17.64 lb

DISPLAY STAND FUNCTIONALITY

Full-function stand: supports -5° to 22° tilt; 150 mm lift; 90° pivot; 90°, 45° left and 45° right swivel
UltraFlex V stand: supports -5° to +70° tilt, up to 70°±2° lift
Tilt-only stand: supports -5° to +20° tilt

SPEAKER

3Wx2

CAMERA/MIC

5M RGBIR + HPD2.0 + tiltable and rotatable
5M RGBIR + tiltable and rotatable
5M RGB + fixed angle
Dual mic

security

SECURITY CHIP

Discrete TPM 2.0
TCG certified
FIPS 140-2 certified

PHYSICAL LOCKS

Kensington® Security Slot™, 3 x 7 mm

CHASSIS INTRUSION SWITCH

Yes¹

OTHER SECURITY

Smart Human Presence Detection (Camera with Radar Sensor)¹
ThinkShutter camera cover (camera models)

BIOS SECURITY

Administrator password
Hard disk password

MANAGEABILITY

System Management
Intel® vPro® Enterprise¹

green certifications²

ENERGY STAR® 9.0¹
EPEAT™ Gold Registered¹
ErP Lot 3
GREENGUARD®
RoHS compliant
TCO Certified 10.0
TCO edge

other certifications

Eyesafe® Certified 2.0
TÜV Rheinland® Flicker Free
TÜV Rheinland® Low Blue Light (Hardware Solution)
IP54-compliant (front face, for non-touch models)
IP55-compliant (front face, for touch models)
Healthcare compliance IEC 60601-1 / IEC 60601-1-23
SGS Performance Tested certification: Super Quiet@
High-Performance Grade1
Mil-Spec Test: MIL-STD-810H

sustainable materials

MATERIAL

85% PCC ABS with brand closed-loop material in plastic in chassis
95% PCC ABS with brand closed-loop material in wired keyboard/mouse

PACKAGING

Paper pulp cushion or 90% PIC EPE cushion
30% OBP bag
FSC carton



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¹ Optional

² The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

³ Partially compliant. For more info, please reach out to local sales team.

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