

Lenovo ThinkCentre

Looking for all-in-one convenience, uncompromised productivity, and seamless remote collaboration? The new 23.8" ThinkCentre M90a Gen 5 with a high-contrast, vivid 1300:1 non-touch display and a touch panel option delivers a premium experience for the work-from-everywhere world. Powered by Intel vPro® with up to 14th Gen Intel® Core™ i7 processors and protected by ThinkShield plus Windows secured-core, this AIO brings improved DDR5 memory to press through data-heavy tasks with ease.

Innovative features like the phone-docking bar, keyboard-docking zone, and monitor-based speaker bar provide an all-around clean aesthetic to reduce desk clutter. AI noise suppression, immersive Dolby Atmos audio, and tiltable camera with radar sensor combine for crystal-clear videoconferencing. Plus, a new tilt-only stand adds to the diverse options allowing you to personalize of this uncompromising powerhouse.

Lenovo ThinkCentre M90a Gen 5



Smarter
technology
for all

Lenovo

Lenovo ThinkCentre M90a Gen 5



M90a Gen 3

M90a Gen 5

Gen-to-Gen

	M90a Gen 3	M90a Gen 5	Gen-to-Gen
Platform, Processor & Chipset	Intel vPro® / Up to 12th Gen Intel® Core™ i9-12900 (65W) / Intel® Q670	Intel vPro® / Up to 14th Gen Intel® Core™ i7-14700 (65W) / Intel® Q670	Up to 57% enhanced performance (i7 14700 vs i7 12700 CineBench R23 Multi-cores)
GPU	Integrated: Intel® UHD Graphics Optional: NVIDIA MX550 2GB GDDR6	Integrated: Intel UHD Graphics Optional: NVIDIA MX570A with 4GB GDDR6	20% increase in dGPU performance of 3DMark Timespy
Memory	Up to 64GB DDR4	Up to 64GB DDR5	Enhanced memory for more intensive workflows
Display Panel	Refresh rate: 60Hz Color gamut: 72% NTSC Contrast ratio: 1000:1	Non-touch: Refresh rate: 60Hz Color gamut: 99% sRGB Contrast ratio: 1300:1 Hardware Low Blue Light Certified with TÜV Rheinland Eyesafe Touch: Refresh rate: 60Hz Color gamut: 72% NTSC Contrast ratio: 1000:1	Amazing definition with vivid colors and sharp contrast, including touch option to empower more vertical scenarios

M90a base/stand options



Full-function Stand



Tilt-only Stand



Ultra-Flex V Stand



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ENHANCED EXPERIENCE

The ThinkCentre M90a Gen 5 delivers on modern workforce demands, from super-fast and secure Intel® Wi-Fi 6 and 6E connectivity and built-in security and power from Intel vPro® with up to 14th Gen Intel® Core™ i7 processors and Intel® UHD or NVIDIA graphics. Because virtual conferencing is part of every workday, the ThinkCentre M90a elevates the experience with AI noise suppression technology and immersive Dolby Atmos sound. Plus, Hardware Low Blue Light technology¹ and TÜV Rheinland Eyesafe certification¹ help support eye health.



INTELLIGENT SECURITY

ThinkCentre M90a Gen 5 is built on the Intel vPro® platform that provides a world-class business PC solution and helps minimize security risks by leveraging technologies deep in the silicon for below-the-OS hardware protection. Equipped with the end-to-end security of ThinkShield, offering Smart USB Protection, zero touch login with its IR camera and Windows Hello™, this AIO safeguards data and assets while delivering long-term stability. Human Presence Detection 2.0, based on the optional radar sensor, not only adds to data privacy, but the walk-away sleep mode enables a new level of security, modern experience, and energy efficiency.



PURPOSEFUL DESIGN

Choose among three different stands, including full-function, ultra-flex, and tilt-only, adding to the versatility to this dynamic AIO design. Ideal for tight workspaces, the phone-docking bar and built-in cord management base reveal the intentional efficiency details of this must-have workhorse. Plus, in addition to the rock-solid reliability ThinkCentre is known for, this AIO is now certified for healthcare.



INTENTIONAL SUSTAINABILITY

Not only is the ThinkCentre M90a Gen 5 engineered to be energy efficient with EPEAT GOLD and Energy Star 8.0 certifications, it's also built with 65% PCC material and delivered in 90% recycled packaging. Committed to industry-leading sustainability practices, Lenovo plans by 2025 to use 100% post-consumer recycled materials in the manufacturing of its PC products.



¹ Non-touch panel only



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Services

Lenovo offers a comprehensive portfolio of services that support the full lifecycle of your Lenovo IT assets. From initial strategic planning to customized configuration, deployment, support, protection, security, and asset recovery—Lenovo has solutions to help you embrace new workplace technologies.



PREMIER SUPPORT

As IT budgets contract, you need to reduce complexity, decrease operational costs, and find ways to increase efficiency from your in-house IT support teams. Lenovo™ Premier Support manages routine support tasks, freeing IT focus on strategic efforts that move the organization forward. Boost end-user productivity and limit downtime with direct access to elite Lenovo engineers who provide unscripted, advanced hardware and software support.



CO₂ OFFSET SERVICES

As the first in the industry, Lenovo offers this certification service to customers who wish to purchase their PC products CO₂-compensated over the device's lifecycle. Included in the hardware transaction, CO₂ compensation is based on realistic emission by product, covering production, shipment, and typical usage cycle (5 years). This service proactively supports reduction of CO₂ emitted in the atmosphere and compensates for environmental impact of business operations.

Accessories

Lenovo Essential Wireless Keyboard and Mouse Combo Gen 2

The slim 2.5-zone keyboard, with its responsive keys, promotes a premium silent typing experience, while the standard-size mouse perfectly complements its keyboard counterpart in design and utility. The 2.4MHz receiver provides a stable keyboard and mouse connection for maximum reliability.



PN: 4X31N507xx

Lenovo Fingerprint Biometric USB Mouse

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.



PN: 4Y50Q64661

Lenovo Wired VoIP Headset (Teams)

Designed for the hybrid workplace, this headset features EPOS BrainAdapt™ and ActiveGard® technology to reduce fatigue and protect your hearing. Plus, with the two variations on offer: one that's Microsoft Teams certified, and the other made for Zoom & other UC-platforms — you're guaranteed to find a solution that meets your needs.



PN: 4XD1M45626

Lenovo ThinkCentre M90a Gen 5

performance

PROCESSOR

Up to Intel vPro™ with 14th Gen Intel® Core™ i7 processor

OS

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

MEMORY

2x SODIMM DDR5 (Up to 5600MHz/64 GB)

CPU

65W, Intel Dynamic Tuning Technology Optimization

POWER

230w 92%; 180w 90%

GRAPHICS

Intel® UHD Graphics 770 / 730
Optional NVIDIA MX570A 4GB GDDR6

display

PANEL SIZE

23.8" Near Edgeless

RESOLUTION

Full HD (1920 x 1080)

PANEL TYPE

In-Plane Switching

REFRESH RATE

60Hz

CONTRAST RATIO (TYPICAL)

1300:1 (non-touch panel)
1000:1 (touch panel)

TOUCH SOLUTION

Yes (Optional 10-point-touch with AIT technology)

BRIGHTNESS

250 cd/m2

RESPONSE TIME (ON/OFF)

14ms

COLOR GAMUT

72% NTSC (Touch)
99% sRGB (Non-touch)

COLOR SUPPORT

16.7M

VIEW ANGLE (H/V)

178/178

ANTI-GLARE

Yes

design

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)

Tilt-only Stand (Tilt: -5° to 20°)

Non-Stand (CTO)

MECHANICAL PERIPHERALS

Full-function monitor stand

Ultra-Flex Stand

Tilt-only Stand

Non-Stand (CTO)

EOU

Stand / Rear cover / MB shielding / Memory

SPEAKER

3Wx2 with Dolby Atmos¹

CAMERA/MIC

5M RGB non-tilt camera

5M RGBIR tilt camera

5M RGBIR tilt camera + radar

Dual mic for AI noise suppression

DIMENSIONS

With Camera

Non-stand: 539.6 x 371 x 49.6 mm / 21.24 x 14.61 x 1.95 in

Ultra-Flex V Stand: Starting at 539.6 x 227.54 x 344.19 mm / 21.24 x 8.96 x 13.55 in

Up to 539.6 x 407.5 x 344.19 mm / 21.24 x 16.04 x 13.55 in

Full-function Stand: Starting at 539.6 x 393.66 x 217.31 mm / 21.24 x 15.50 x 8.56 in

Up to 539.6 x 501.85 x 217.31 mm / 21.24 x 19.75 x 8.56 in

Tilt-only Stand: 539.6 x 453.39 x 213.38 mm / 21.24 x 17.85 x 8.4 in

Without Camera

Non-stand: 539.6 x 352 x 49.6 mm / 21.24 x 13.86 x 1.95 in

Ultra-Flex V Stand: Starting at 539.6 x 219.5 x 325.87 mm / 21.24 x 8.64 x 12.83 in

Up to 539.6 x 399.46 x 341.42 mm / 21.24 x 15.73 x 13.44 in

Full-function Stand: Starting at 539.6 x 374.15 x 217.31 mm / 21.24 x 14.73 x 8.56 in

Up to 539.6 x 483.16 x 217.31 mm / 21.24 x 19.02 x 8.56 in

Tilt-only Stand: 539.6 x 434.39 x 213.38 mm / 21.24 x 17.1 x 8.4 in

WEIGHT

Non-stand: 6.056 kg / 13.35 lb

With Ultra-Flex V Stand: Starting at 8.555 kg / 18.86 lb

With Full-function Stand: Starting at 8.048 kg / 17.74 lb

With Tilt-only Stand: Starting at 7.61 kg / 16.78 lb

connectivity

SIDE IO

3x USB-A 3.2 Gen 2
1x Optional Card Reader (3-in-1)
1x Combo Audio Jack

REAR IO

1x USB-C 3.2 Gen 2 (RC)
3x USB-A 3.2 Gen 1 (one supports USB power on)
1x DP Out 1.4a
1x LAN
HDMI In 1.4/ Out 2.1 Combo (Up to HDMI 2.1 TDMS)
1x Optional Serial

INTERNAL BAY

1x Slim ODD

M.2 SLOT

2x M.2 for PCIe Gen 4 SSD
1x M.2 for Wi-Fi

WIRELESS

Intel® Wi-Fi 6E¹ 2x2 AX
Intel® Wi-Fi 6 2x2 AX

security

Intel vPro Enterprise
Optional Human Presence Detection Sensor 2.0
Intel® Context Sensing Technology (Intel® CST)
EC Self-healing (level 1)
BIOS-based Smart USB Protection
dTPM 2.0
Kensington™ slot
Intrusion Switch (optional)
Webcam Privacy Shutter (optional)
Windows Hello™

certifications

Energy Star 8.0
Anti-dust
12 MIL-SPEC
TÜV Rheinland Low Blue Light
TÜV Rheinland Flicker Free
TÜV Rheinland Eyesafe²
Ultra-Low Noise
TCO 9.0
EPEAT Gold
TCO Edge
RoHS



¹16GHz 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.

² Non-touch panel only

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