ThinkCentre M90a Pro Gen 3

The new ThinkCentre M90a Pro Gen 3 is the industry's most premium all-in-one desktop engineered for the modern workforce. A smarter, sleeker, and more secure design, powered by Intel vPro® with up to 12th Gen Intel® Core™ i9 processors, elevates this AIO to the must-have category.

Its phone-docking bar, keyboard-docking zone, and user-facing speaker bar deliver a clean aesthetic from the perspective of both the user and customer, while the sharper 2K panel display, tiltable camera, and conference call base* provide superior medium-room Teams meetings. This intelligent all-in-one turns the work-from-anywhere norm into a corner-office experience.

*Optional or as accessory

intel.
vPRO
i9

Smarter
technology
for all

Lenovo

ThinkCentre M90a Pro Gen 3

INTELLIGENT SECURITY

ThinkCentre M90a Pro Gen 3 is built on the Intel vPro® platform, which brings together the best of Intel innovations and helps minimize security risks by leveraging technologies deep in the silicon. Equipped with the end-to-end security of ThinkShield and offering zero touch login with its IR camera and Windows Hello,™ this AIO safeguards data and assets while delivering long-term stability. Plus, human presence detection (HPD)* not only adds to data privacy, but the walk-away sleep mode enables a modern experience with new levels of security and energy efficiency.

POWERFUL EXPERIENCE

The full-function stand with adaptable tilt, lift, pivot, and swivel, along with the industry-first tiltable camera, help create a versatile ergonomic fit. Moreover, an Optional Ultra-Flex Stand adds agility to any user of modern workspace. An optional conference call base brings collaboration to life. Quad-array microphones with 360-degree far field pickup using AI noise suppression technology and four Harman speakers transform this device into a group conferencing PC. USB Type-C connectivity brings clarity and richness to virtual meetings—large or small. And with the industry-leading Teams medium-room certification, the M90a Pro Gen 3 is made for the modern workforce.

PURPOSEFUL DESIGN

The innovative conference call base*, phone-docking bar, and built-in cord management base reveal the intentional detail of this premium AIO. Further elevating the user experience are the improved 2K QHD display panel, VoIP integration, and user-facing speaker bar. Plus, exceptional audio with Dolby Atmos® contributes to creating a space-efficient, immersive, and productive workspace.

*Optional

Smarter amplifies virtual meetings.

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

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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

Premier Support provides direct 24x7x365 access to elite Lenovo engineers for comprehensive hardware and OEM software support, priority on service delivery, repair of parts, and many more. This ensures that customers' issues and concerns are resolved quickly, saving them costs and enhancing productivity.

CO_2 OFFSET SERVICES

Make offsetting carbon emissions simple and within your control. You can use this service to compensate for environmental impact based on realistic emissions over an average product lifecycle. It is offered as an option at point of purchase, with tangible proof of CO_2 emission that offset

Accessories

Lenovo Professional Wireless Keyboard and Mouse Combo

The slim 3-zone keyboard with number pad features responsive, quiet keys for a premium typing experience. The one- touch dedicated media keys put the controls you use most at your fingertips. The ergonomic full-size mouse provides comfort and support for all-day use.

PN: 4X30H56xxx

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 Go Wired ANC Headset

The Lenovo Go Wired ANC Headset with Teams Certification is designed to reduce ambient noise and maintain productivity while on the go. While enjoying the superior sound, it also features ENC microphone designed for crisp intelligibility with ENC noise cancellation.

PN: 4XD1C99223

ThinkCentre M90a Pro Gen 3

performance

PROCESSOR
Up to Intel vPro® with up to 12th Gen Intel® Core™ i9 processor

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

MEMORY
Up to 64GB DDR5

STORAGE
SSD: 256GB/512GB/1TB
(up to PCIE Gen 4)
2.5" HDD: 500GB/1TB/2TB

CPU
65W, Intel® Dynamic Tuning Technology Optimization

POWER
230w 92%; 180w 90%

GRAPHICS
Intel® UHD Graphics 770/730/710
Optional NVIDIA GeForce MX550
(2GB GDDR6)

display

PANEL SIZE
23.8'' Near Edgeless

RESOLUTION
QHD (2560 x 1440)

PANEL TYPE
In-Plane Switching

REFRESH RATE
60Hz

CONTRAST RATIO (TYPICAL)
1000:1

BRIGHTNESS
300 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
3 x USB-A 3.2 Gen 2
3-in-1 card reader (optional)
1 combo audio jack

REAR IO
1 x USB-C 3.2 Gen 2 (RC)
3 x USB 3.2 Gen 1
(one supports USB power on)
DP 1.4 out
1 x LAN
HDMI 2.0 out
HDMI in 1.4 combo
Intel® Ethernet
Serial port (optional)

INTERNAL BAY
2 x 2.5" HDD
(1 default, 1 optional from ODD bay)
1 x Slim ODD

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

WI-FI
Intel® Wi-Fi 6E[1] 2x2 AX
Intel® Wi-Fi 6 2x2 AX

design

DIMENSIONS
Non-stand: 540 x 350 x 49 mm / 21.26 x 13.78 x 1.93 in
With Ultra-Flex V Stand: Starting at 539.6 x 367.13 x 216.32 mm / 21.24 x 14.45 x 8.52 in
With Full-function Stand: Starting at 539.6 x 374.15 x 217.31 mm / 21.24 x 14.73 x 8.56 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

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
Ultra-Flex Stand (Optional)
Non-Stand (Customer-to-order)

EOU
Stand / Rear cover / MB shielding / HDD / Memory

SPEAKER
3Wx2 with Dolby Atmos®
Optional conference call base

CAMERA/MIC
5M RGBIR & RGB/dual mic (Cortana)
Audio Neural Noise Cancellation (Intel® GNA)

security

Optional Human Presence Detection 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 (optional)
Windows Hello™

certifications

Modern Standby
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
65% PCC
ICE 4.0