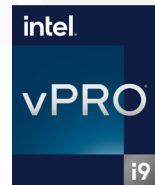


# ThinkCentre M90a Gen 3

For all-in-one convenience, uncompromised productivity, and seamless remote collaboration, the new 23.8" Full-HD ThinkCentre M90a Gen 3 delivers a premium experience for the work-from-everywhere world. Powered by Intel vPro® with up to 12<sup>th</sup> Gen Intel® Core™ i9 processors and protected by ThinkShield plus Windows secured-core, this AIO powers data-heavy tasks with ease.

Innovative features like the phone-docking bar, keyboard-docking zone, and monitor-based speaker bar deliver an all-around clean aesthetic to reduce desk clutter. AI noise suppression, immersive Dolby Atmos audio, an industry-first tiltable camera, and optional conference call base\* combine for crystal-clear videoconferencing. Plus, the optional Advanced In-cell Touch (AIT) screen empowers next-level productivity and creativity with outstanding touch response.



Smarter  
technology  
for all

Lenovo

# ThinkCentre M90a Gen 3



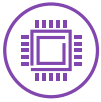
## M90a Gen 2

## M90a Gen 3

## Gen-to-Gen

|                                  |   |   |  |
|----------------------------------|---|---|--|
| Platform, Processor & Chipset    | Intel vPro® / Up to 11th Gen Intel® Core™ i9-11900 (65W) / Intel® Q570                    | Intel vPro® / Up to 12th Gen Intel® Core™ i9-12900 (65W) / Intel® Q670  | Up to 100% enhanced performance  |
| GPU                              | Integrated: Intel® UHD Graphics<br>Optional: AMD Radeon 630 2GB GDDR5                     | Integrated: Intel® UHD Graphics<br>Optional: NVIDIA MX550 2GB GDDR6   | More efficient at manipulating computer graphics and image processing                          |
| PSU                              | External adaptor: 150W 89%; 170W 89%  | Internal PSU: 180W 90%; 230W 92%  | Improved power efficiency; easier to deploy  |
| Peripheral                       | n/a   | Optional conference call base   | Seamless remote collaboration  |
| Physical button for monitor mode | No  | Yes   | Expanded desktop ecosystem with enhanced user experience and flexibility to use AIO as monitor |
| Side IO                          | 2x USB 3.2 Gen 2<br>1x USB-C 3.2 Gen 2 (RC)<br>1x Combo jack<br>Optional 1x card reader   | 3x USB 3.2 Gen 2<br>1x Combo jack<br>Optional 1x 3-in-1 card reader   |  |
| Rear IO                          | 4x USB 3.2 Gen 1<br>1x DP Out/In combo<br>Optional 1x HDMI out<br>Optional 1x Serial port | 1x USB-C 3.2 Gen 2 (RC)<br>3x USB 3.2 Gen 1 (1x support USB power on)<br>1x HDMI Out 2.1/In 1.4 combo<br>1x DP Out 1.4<br>Optional 1x Serial port | Enhanced connectivity with more advanced IO solutions  |
| Security                         | n/a   | Optional Human Presence Detection (HPD) sensor  | Smart innovative sensor to enhance security; easy to use and saves energy                      |
| Reliability                      | 10 MIL-SPEC   | 12 MIL-SPEC   | More strict tests for improved durability  |
| Sustainability                   | EPEAT Silver<br>TCO 8.0   | EPEAT Gold<br>TCO 9.0   | Meets higher environmental standard  |

# ThinkCentre M90a Gen 3



## ENHANCED EXPERIENCE

The ThinkCentre M90a Gen 3 delivers on modern workforce demands, from super-fast and secure Intel® Wi-Fi 6 and 6E connectivity and built-in security to the powerful Intel vPro® with up to 12th Gen Intel® Core™ i9 processors and optional 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, Low Blue Light and flicker-free certifications help support eye health.



## INTELLIGENT SECURITY

ThinkCentre M90a 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, 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 (HPD)\* not only adds to data privacy, but the walk-away sleep mode enables a new level of security, modern experience, and energy efficiency.



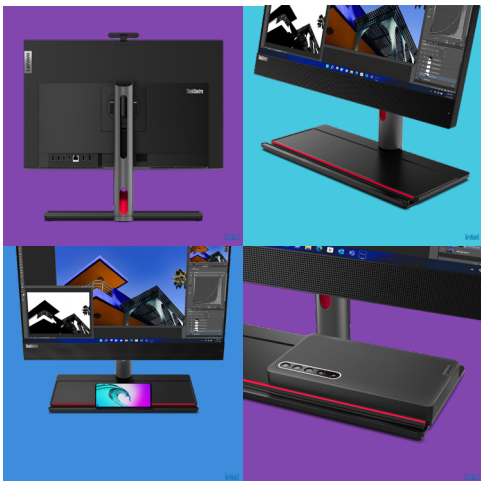
## PURPOSEFUL DESIGN

The industry-first tiltable camera along with the full-function stand with adaptable tilt, lift, pivot, and swivel add versatility to this dynamic AIO design. Ideal for tight workspaces, the innovative conference call base\*, phone-docking bar, and built-in cord management base reveal the intentional efficiency details of this must-have AIO.



## INTENTIONAL SUSTAINABILITY

Not only is the ThinkCentre M90a Gen 3 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.



## Smarter enhances the virtual workplace.

### 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

\*Optional

# ThinkCentre M90a Gen 3

## 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.



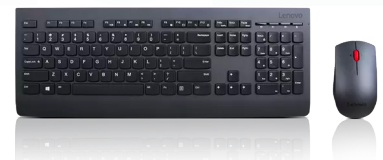
### CO<sub>2</sub> OFFSET SERVICES

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<sub>2</sub> 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 Speakerphone

The Lenovo Go Wired Speakerphone brings enterprise-grade conferencing and audio to the remote workforce. In one portable plug-and-play solution, you can hold natural conference calls optimized by advanced voice-first algorithms. And with Teams Certified tech, you can rest easy knowing you can make the most of your favorite UC platform.



PN: 4XD1C82055



# ThinkCentre M90a Gen 3

## performance

### PROCESSOR

Up to Intel vPro® with 12<sup>th</sup> Gen Intel® Core™ i9 processor

### OS

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

### MEMORY

2x SODIMM DDR4 (Up to 3200MHz/64 GB)

### 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

Full HD (1920 x 1080)

### PANEL TYPE

In-Plane Switching

### REFRESH RATE

60Hz

### CONTRAST RATIO (TYPICAL)

1000:1

### TOUCH SOLUTION

Yes (10-point-touch with AIT technology)

### BRIGHTNESS

250 cd/m2

### RESPONSE TIME (ON/OFF)

14ms

### COLOR GAMUT

72% NTSC (CIE 1931)

### COLOR SUPPORT

16.7M

### VIEW ANGLE (H/V)

178/178

### ANTI-GLARE

Yes

## 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 1.4  
1x LAN  
HDMI In 1.4/ Out 2.1 Combo (Up to HDMI 2.1 TDMS)  
1x Optional Serial

### INTERNAL BAY

2x 2.5" HDD (1x Default, 1x optional from ODD bay)  
1x Slim ODD

### M.2 SLOT

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

### WI-FI

Intel® Wi-Fi 6E<sup>1</sup> 2x2 AX  
Intel® Wi-Fi 6 2x2 AX

## design

### DIMENSIONS

Non-stand: 540x350x49 mm / 21.26x13.78x1.93 in  
With Ultra-Flex V Stand: Starting at 539.6mm x 367.13mm x 216.32mm / 21.24x14.45x8.52 in  
With Full-function Stand: Starting at 539.6x374.15x217.31mm / 21.24x14.73x8.56 in

### WEIGHT

Non-stand: 6.056 kg / 13.35 lb  
With Ultra-Flex V Stand: Starting at 8.555 kg / 18.92 lb  
With Full-function Stand: Starting at 8.048 kg / 17.74 lb

### DISPLAY STAND FUNCTIONALITY

Full-function Stand (Tilt: -5° to 20°; Lift: 110mm; Pivot: 90°; Swivel: 90°, 45° left and 45° right)  
Ultra-Flex V Stand (Tilt: -5° to 70°; Lift: 64° ± 2° with vertical lift range of 84.37 mm)

Non-Stand (CTO)

### MECHANICAL PERIPHERALS

Full-function monitor stand  
Ultra-Flex Stand  
Non-Stand (CTO)

### 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)

## security

Intel vPro Enterprise  
Optional Human Presence Detection Sensor  
Intel® Context Sensing Technology (Intel® CST)  
EC Self-healing (level 2)  
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  
Ultra-Low Noise  
TCO 9.0  
EPEAT Gold  
TCO Edge RoHS  
ICE 4.0

<sup>1</sup>16GHz 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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