## ThinkCentre M90a Gen 5 12SH001EAU

## PERFORMANCE

Processor

Intel® Core™ i5-14500, 14C (6P + 8E) / 20T, P-core 2.6 / 5.0GHz, E-core 1.9 / 3.7GHz, 24MB

Graphics Integrated Intel<sup>®</sup> UHD Graphics 770

Chipset Intel® Q670 Chipset

Memory

2x 8GB SO-DIMM DDR5-4800

## Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

## Max Memory<sup>[1]</sup>

- Models with Core i3/i5: Up to 64GB DDR5-4800
- Models with Core i7: Up to 64GB DDR5-5200

## Storage

512GB SSD M.2 2280 PCIe<sup>®</sup> 4.0x4 NVMe<sup>®</sup> Opal 2.0

## Storage Support<sup>[2]</sup>

Models with Intel® UHD graphics: Up to two drives, 2x M.2 SSD • M.2 SSD up to 2TB each

#### Card Reader

3-in-1 Card Reader

## Audio Chip

High Definition (HD) Audio, Realtek® ALC233NL-VB2-CG codec

## Speakers

3Wx2

**Camera** 5.0MP + IR Hybrid

## Microphone

2x, Array

#### Power Supply 180W 90%

DESIGN

## Display<sup>[3]</sup>

23.8" FHD (1920x1080) IPS Anti-glare 250nits, 60Hz, 72% NTSC, software low blue light, flick free, touch

## Touchscreen

10-point Multi-touch

#### Keyboard

USB Traditional Keyboard, Black, English

#### Mouse USB Calliope Mouse, Black

Expansion Slots

Models with Intel $^{\rm B}$  UHD graphics: Three M.2 slots (one for WLAN, two for SSD)

#### Case Color Black

Stand

UltraFlex V Stand

#### Mounting VESA mount

Form Factor AIO (23.8 inches)

## Dimensions (WxDxH)<sup>[4]</sup>

Lowest in flat mode: 539.6 x 344.19 x 227.54 mm (21.24 x 13.55 x 8.96 inches) Highest in vertical mode: 539.6 x 252.60 x 472.00 mm (21.24 x 9.94 x 18.58 inches)

## Weight<sup>[5]</sup>

Around 7.83 kg (17.3 lbs)

## CONNECTIVITY

## Ethernet

Integrated 100/1000M

## WLAN + Bluetooth®

Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 + BT5.2

#### Rear Ports

- 1x USB-C<sup>®</sup> (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 15W charging
- 3x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x HDMI® (HDMI® in 1.4 / HDMI® out 2.1 TMDS combo port)
- 1x DisplayPort<sup>™</sup> 1.4
- 1x Ethernet (RJ-45)

## Right Ports

- 3x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x headphone / microphone combo jack (3.5mm)

## Optional Right Ports (configured)

1x card reader

## **SECURITY & PRIVACY**

## Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

## **Fingerprint Reader**

No fingerprint reader

## Physical Locks

Kensington<sup>®</sup> Security Slot<sup>™</sup>, 3 x 7 mm

#### Chassis Intrusion Switch Chassis Intrusion Switch

**Other Security** ThinkShutter camera cover (camera models)

## MANAGEABILITY

System Management<sup>[6]</sup> Non-vPro<sup>®</sup>

## SERVICE

Base Warranty 3-vear. Onsite

## **CERTIFICATIONS**

## **Green Certifications**

- ENERGY STAR® 8.0
- EPEAT<sup>™</sup> Gold Registered
- ErP Lot 3
- GREENGUARD<sup>®</sup>
- RoHS compliant
- TCO Certified 9.0
- TCO edge

## Other Certifications

- TÜV Rheinland® Low Blue Light (Software Solution)
- TÜV Rheinland® Flicker Free
- UL Anti-dust

## Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation, Contamination by Fluids, Salt Fog)

Lenovo

PSRFF

Reference

Product Specifications

## SOFTWARE

## **Operating System**

Windows® 11 Pro, English

## MODEL

TopSeller	: Yes	Announce Date	: 2024-02-20
EAN / UPC / JAN	: 197530792571	End of Support	: 2030-08-16



Product image is a sample, it may not match the real color of this model Note:

[1] The max memory is based on the test results with current Lenovo memory offerings.

[2] The max capacity of each disk type is based on the test.....

To see more note information, please link to https://psref.lenovo.com/Detail/2409?M=12SH001EAU

 $\cdot$  Lenovo reserves the right to change specifications without notice.

## Premier Support - A direct 24x7x365 line to our most elite technicians.



Advanced technical support, 24x7x365, in more than 100 markets



Comprehensive hardware & OEM software support



Single point of contact for simplified end-to-end case management



**Technical Account Managers for** proactive relationship and escalation management

Priority on service delivery and repair parts



Lenovo Service Connect Portal for customized reporting and product support

# Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

## Base Warranty - Included with the systems you purchase, default 1- or 3-year coverage window.

## Warranty Extensions & Upgrades - Service and protection that's right for your circumstances.

Pick Up & Return Courier

Technician Installed Customer

Onsite Support

- Replaceable Unit Service
- International Warranty Upgrade

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# **Recommended** Accessories



## Kensington MicroSaver 2.0 Cable Lock from Lenovo

Protect your device. Lenovo offers the latest standard in device security - the MicroSaver 2.0 Cable Lock From Lenovo. Engineered to be the smallest, strongest lock for laptops and other devices, the MicroSaver 2.0 re...

# **Recommended Services**

BEST	4Y Premier Support Plus upgrade from 3Y Onsite (5WS1L42245)	
BETTER	3Y Premier Support Plus upgrade from 3Y Onsite (5WS1L42289)	
GOOD	3Y Premier Support upgrade from 3Y Onsite (5WS0V08537)	

For a full list of accessories and services, please visit: https://smartfind.Lenovo.com

