# ThinkCentre M90q Gen 4 12EH000GMZ



#### **PERFORMANCE**

#### Processor<sup>[1]</sup>

Intel® Core™ i9-13900, 24C (8P + 16E) / 32T, Max Turbo up to 5.6GHz. P-core 2.0 / 5.2GHz. E-core 1.5 / 4.2GHz. 36MB

#### **Graphics**

Integrated Intel UHD Graphics 770

#### Chipset

Intel Q670 Chipset

#### Memory

1x 16GB SO-DIMM DDR5-5600

#### **Memory Slots**

Two DDR5 SO-DIMM slots, dual-channel capable

#### Max Memory[2

Up to 64GB (2x 32GB DDR5 SO-DIMM)

#### Storag

512GB SSD M.2 2280 PCle® 4.0x4 Performance NVMe® Opal

#### Storage Support[3]

Up to three drives, 1x 2.5" HDD + 2x M.2 SSD

- 2.5" HDD up to 1TB
- M.2 SSD up to 2TB each

#### **Card Reader**

No card reader

#### Optical

None

#### **Audio Chip**

High Definition (HD) Audio, Realtek® ALC256VB codec

#### **Speakers**

Premium, 2Wx1

#### **Power Supply**

230W 89% Adapter

#### **DESIGN**

#### Keyboard

USB Traditional Keyboard, Black, Swiss

#### Mous

USB Calliope Mouse, Black

#### **Optional Bay**

2.5" HDD Bracket

#### **Expansion Slots**

- One PCIe 4.0 x8, low-profile
- Two M.2 PCle Gen 4x4 slots (for SSD)
- One M.2 slot (for WLAN)

#### **Case Color**

Black

#### Stand

Vertical Stand

#### **Adapter Cage**

None

#### **Toolless Chassis Screw**

Toolless Chassis Screw

#### **Dust Filter**

None

#### Mounting

None

#### IO Box

None

#### Form Factor

Tiny (1L)

#### Dimensions (WxDxH)[4]

- Tiny only|179 x 182.9 x 36.5 mm with rubber feet (7.05 x 7.2 x 1.44 inches with rubber feet)
- Tiny & ODD|204.2 x 186.6 x 64 mm with rubber feet (8.04 x 7.35 x 2.52 inches with rubber feet)

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

- Tiny only | 1.25 kg (2.76 lbs)
- With VESA mount & ODD box 1.74 kg (3.84 lbs)

#### CONNECTIVITY

#### Ethernet

Integrated 100/1000M

#### WLAN + Bluetooth®

Intel Wi-Fi® 6E AX211, 11ax 2x2 + BT5.1, vPro®

#### Front Ports

- 1x USB-C® 3.2 Gen 2 (support data transfer)
- 1x USB 3.2 Gen 2 (Always On and 5V@2.1A charging)
- 1x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

#### **Optional Front Ports (configured)**

#### None

#### **Rear Ports**

- 2x USB 3.2 Gen 1 (one supports Smart Power On)
- 2x USB 3.2 Gen 2
- 1x HDMI® 2.1 TMDS
- 1x DisplayPort<sup>™</sup> 1.4a (HBR2, DSC)
- 1x Ethernet (RJ-45)

#### **Optional Rear Ports (configured)**

- 1x Serial
- 1x DP

#### **Monitor Cable**

None

#### **SECURITY & PRIVACY**

#### **Security Chip**

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

#### **Fingerprint Reader**

No fingerprint reader

#### **Physical Locks**

Kensington® Security Slot™, 3 x 7 mm

#### **Chassis Intrusion Switch**

Chassis Intrusion Switch

#### **MANAGEABILITY**

#### System Management<sup>[6]</sup>

Intel® vPro® Enterprise

### **SERVICE**

#### **Base Warranty**

3-year, Onsite

#### **Included Upgrade**

3Y Premier Support TC DT/AIO WHB (CPN)

#### **CERTIFICATIONS**

#### Green Certifications[7]

- ENERGY STAR® 8.0
- EPEAT™ Silver Registered
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

#### Mil-Spec Test

MIL-STD-810H military test passed

#### **SOFTWARE**

#### Operating System

Windows® 11 Pro, WE (EN/FR/DE/NL/IT)

#### **Bundled Software**

None

#### **MODEL**

TopSeller : Yes Announce Date : 2023-07-18

#### Note.

[1] Intel Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see

http://www.intel.com/technology/turboboost/ for more information. [2] The max memory is based on the test results with current.....

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

https://psref.lenovo.com/Detail/2229?M=12EH000GMZ

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Technical Account Managers for proactive relationship and escalation management



Comprehensive hardware & OEM software support



Priority on service delivery and repair parts



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



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
- Onsite Support

- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

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## Recommended Accessories



## Lenovo Professional Wireless Combo Keyboard & Mouse (US English)

4X30H56796

This sleek and stylish full-size keyboard and mouse combo offers exceptional quality in a modern wireless solution. The slim 3-zone keyboard with number pad has responsive quiet keys and a premium typing experience.

## **Recommended Services**

BEST	4Y Premier Support Plus (5WS1L39281)
BETTER	4Y Premier Support (5WS0W86713)
GOOD	3Y Prermier Support Plus (5WS1L39061)

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

