ThinkCentre M90a Pro Gen 4 12JM000YMZ

PSREF
Product Specifications Reference

PERFORMANCE

Processor
Intel® Core™ i7-13700, 16C (8P + 8E) / 24T, Max Turbo up to 5.2GHz, P-core 2.1 / 5.1GHz, E-core 1.5 / 4.1GHz, 30MB

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
Models with Core™ i7/i9: Up to 64GB DDR5-5200

Storage
512GB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0

Storage Support
Up to three drives, 1x 2.5" HDD + 2x M.2 SSD
• 2.5" HDD up to 1TB
• M.2 SSD up to 1TB each

Card Reader
3-in-1 Card Reader

Optical
DVD±RW

Audio Chip
High Definition (HD) Audio, Realtek® ALC256-NL codec

Speakers
5Wx2

Camera
5.0MP

Microphone
2x, Array

Power Supply
230W 92%

DESIGN

Display
27" QHD (2560x1440) IPS 350nits Anti-glare, 99% sRGB

Keyboard
USB Traditional Keyboard, Black, Swiss

Mouse
USB Calliope Mouse, Black

Expansion Slots
Three M.2 slots (one for WLAN, two for SSD)

Case Color
Black

Stand
Full Function Monitor Stand

Mounting
VESA mount

Form Factor
AIO (27 inches)

Dimensions (WxDxH)
Lowest in vertical mode: 613.6 x 219.81 x 411.04 mm (24.2 x 8.7 x 16.2 inches)
Highest in vertical mode: 613.6 x 219.81 x 521.81 mm (24.2 x 8.7 x 20.5 inches)

Weight
11.2 kg (24.8 lbs, maximum configuration)

CONNECTIVITY

Ethernet
Integrated 100/1000M

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

Rear Ports
- 1x USB-C® 3.2 Gen 2 (support data transfer and 15W charging)
- 3x USB 3.2 Gen 1
- 1x HDMI® (HDMI® in 1.4 / HDMI® out 2.1 TMDS combo port)
- 1x DisplayPort™ 1.4
- 1x Ethernet (RJ-45)

Right Ports
- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, 15W charging and DisplayPort™ 1.4)
- 2x 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

Fingerprint Reader
No fingerprint reader

Physical Locks
Kensington® Security Slot™, 3 x 7 mm

Chassis Intrusion Switch
Chassis Intrusion Switch

Other Security
ThinkShutter camera cover

MANAGEABILITY

System Management
Intel® vPro® Enterprise

SERVICE

Base Warranty
3-year, Onsite

Included Upgrade
1Y Premier Support from 3Y Onsite WHB (CPN)

CERTIFICATIONS

Green Certifications
- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0
- TCO edge
- VOC Report

Other Certifications
- Eyesafe® Certified 2.0
- TÜV Rheinland® Flicker Free
- TÜV Rheinland® Low Blue Light (Hardware Solution)
- 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)

SOFTWARE

Operating System
Windows® 11 Pro, WE (EN/FR/DE/NL/IT)

MODEL

TopSeller	: Yes	**Announce Date**	: 2023-10-03
EAN / UPC / JAN	: 0197532548824	**End of Support**	: 2030-04-26

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

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



Kensington MicroSaver 2.0 Cable Lock from Lenovo

4XE0N80914

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	3Y Premier Support upgrade from 1Y Premier Support (5WS1C83308)
BETTER	2Y Premier Support upgrade from 1Y Premier Support (5WS1C83303)
GOOD	1Y Keep Your Drive Add On (5PS0V08542)

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

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