ThinkCentre M90a Pro Gen 4 12JM0021MX

Lenovo PSREF Product Specifications Reference

PERFORMANCE

Processor

Intel® Core i5-13500, 14C (6P + 8E) / 20T, P-core 2.5 / 4.8GHz, E-core 1.8 / 3.5GHz, 24MB

Graphics

Integrated Intel® UHD Graphics 770

Chipset

Intel® Q670 Chipset

Memory

1x 16GB SO-DIMM DDR5-4800

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Max Memory

Models with Core i5: Up to 64GB DDR5-4800

Storage

256GB SSD M.2 2280 PCIe® 4.0x4 NVMe® Opal 2.0

Max 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

None

Audio Chip

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

Speakers

5Wx2

Camera

5.0MP + IR Hybrid

Microphone

2x, Array

Power Supply

230W 92%

DESIGN

Display

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

Touchscreen

None

Keyboard

Calliope Wireless Keyboard, Black, Nordic (DK/FI/NO/SV)

Mouse

Calliope Wireless 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

Pen

Pen Not Supported

Form Factor

AIO (27 inches)

Dimensions (WxDxH)

Lowest in vertical mode: $613.6 \times 219.81 \times 411.04 \text{ mm}$ (24.2 x 8.7 x 16.2 inches) Highest in vertical mode: $613.6 \times 219.81 \times 521.81 \text{ mm}$ (24.2 x 8.7 x 20.5 inches)

Weight

11.2 kg (24.8 lbs, maximum configuration)

CONNECTIVITY

WLAN + Bluetooth

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3, vPro®

WWAN

Non-WWAN

Ethernet

Integrated 100/1000M

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)

Optional Rear Ports (configured)

None

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

Optional Ports (configured)

None

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

1-year, Onsite

Included Upgrade

3Y Premier Support upgrade from 1Y Onsite, CO2 Offset 1 ton (2nd Generation Carbon Offset Projects)

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. Nordic (DK/FI/SV/NO/EN)

ACCESSORIES

MODEL

TopSeller: Yes EAN / UPC / JAN: 0197531684615
Announce Date: 2023-12-12 End of Support: 2030-04-26

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
- Onsite Support

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

Lenovo may not offer the products, services or features discussed in this document in all regions. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

Recommended Accessories



Lenovo Wired VoIP Headset (Teams)
4XD1M45626



Lenovo Legion M220 Wireless RGB Gaming Mouse GY51U28359

Please click here to view the full list of accessories.

Recommended Services

	BEST	4Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39432)
	BETTER	4Y Premier Support upgrade from 3Y Premier Support (5WS0W86757)
	GOOD	3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39329)

