ThinkCentre M90a Gen 5 12SH002ECA



The product images are for illustration purposes only. Actual product appearance, ports, keyboard layout, and accessories may vary by model.

- Intel Core i7-14700, 20C (8P + 12E) / 28T, Max Turbo up to 5.4GHz, P-core 2.1 / 5.3GHz, E-core 1.5 / 4.2GHz, 33MB Intel Smart Cache
- 2x 16GB SODIMM DDR5-5600
- 512GB SSD M.2 2280 PCIe 4.0x4 NVMe Opal 2.0
- NVIDIA GeForce MX570A 4GB GDDR6
- Windows 11 Pro, French
- Case color - Black
- 3-year, Onsite

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

Recommended Accessories

United Kingdom



Lenovo Wired VoIP Headset (Teams)

4XD1M45626



ThinkPad Bluetooth Presenter Mouse (Aura Edition)

4Y51T62792



Lenovo 310 FHD Webcam Black

GXC1S15024



ThinkPad 1TB Performance PCIe Gen4 NVMe OPAL2 M.2 2280 SSD Gen3

4XB1N36075



Kensington MicroSaver DS 2.0 Cable Lock from Lenovo

4XE1L68273



Kensington Privacy Screen for Monitors 23.8" (16:9)

4Z11K07879

>> View More Accessories

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.

ThinkCentre M90a Gen 5 12SH002ECA

PERFORMANCE

Processor
Intel Core™ i7-14700, 20C (8P + 12E) / 28T, Max Turbo up to 5.4GHz, P-core 2.1 / 5.3GHz, E-core 1.5 / 4.2GHz, 33MB Intel® Smart Cache

Graphics
NVIDIA® GeForce MX570A 4GB GDDR6

Chipset
Intel® Q670 Chipset

Memory
2x 16GB SODIMM DDR5-5600

Memory Slots
Two DDR5 SODIMM slots, dual-channel capable

Max Memory[1]
- 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® 4.0x4 NVMe® Opal 2.0

Max Storage Support[2]
Models with NVIDIA® GeForce MX570A: Up to one drives, 1x M.2 SSD • M.2 SSD up to 2TB each

Card Reader
No Card Reader

Optical
DVD±RW

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

Speakers
3Wx2

Camera
5.0MP + IR Hybrid

Microphone
2x, Array

Power Supply
230W 92%

DESIGN

Display[3]
23.8" FHD (1920x1080) IPS Anti-glare 250nits, 60Hz, 99% sRGB, hardware low blue light, flicker free, eyesafe, non-touch

Touchscreen
None

Keyboard
USB Calliope Keyboard, Black, French

Mouse
USB Calliope Mouse, Black

Optional Bay
None

Expansion Slots
Models with NVIDIA® GeForce MX570A: Two M.2 slots (one for WLAN, one for SSD)

Case Color
Black

Stand
UltraFlex V Stand

Mounting
VESA mount

Pen
Pen Not Supported

Form Factor
AIO (23.8 inches)

Dimensions (WxDxH)[4]
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[5]
Around 7.83 kg (17.3 lbs)

CONNECTIVITY

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

WWAN
WWAN Not Supported

Ethernet
Integrated 100/1000M

Rear Ports
- 1x USB-C® (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™ 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 Ports (configured)
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
None

Additional Security
None

Other Security
ThinkShutter camera cover (camera models)

MANAGEABILITY

System Management[6]
Intel® vPro® Enterprise

SERVICE

Base Warranty
3-year, Onsite

Included Upgrade
None

CERTIFICATIONS

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

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

SOFTWARE

Operating System
Windows® 11 Pro, French

Bundled Software
None

ACCESSORIES

MODEL

TopSeller	: Yes	**EAN / UPC / JAN**	: 198154815141
Announce Date	: 2024-07-30	**End of Support**	: 2030-08-16

- Please refer to the official Lenovo store website or contact a local Lenovo sales representative or authorized business partner for current inventory and purchase options.
- Lenovo reserves the right to change specifications without notice. To see more note information, please access the web page.