

# ThinkCentre M90a Gen 5

## PERFORMANCE

<b>Processor</b>	Intel® Core™ i5-14400, 10C (6P + 4E) / 16T, P-core 2.5 / 4.7GHz, E-core 1.8 / 3.5GHz, 20MB
<b>Graphics</b>	Integrated Intel® UHD Graphics 730
<b>Chipset</b>	Intel® Q670 Chipset
<b>Memory<sup>[1]</sup></b>	1x 8GB SO-DIMM DDR5-4800
<b>Memory Slots</b>	Two DDR5 SO-DIMM slots, dual-channel capable
<b>Max Memory<sup>[2]</sup></b>	<ul style="list-style-type: none"><li>Models with Core i3/i5: Up to 64GB DDR5-4800</li><li>Models with Core i7: Up to 64GB DDR5-5200</li></ul>
<b>Storage</b>	512GB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0
<b>Storage Support<sup>[3]</sup></b>	Models with Intel® UHD graphics: Up to two drives, 2x M.2 SSD <ul style="list-style-type: none"><li>M.2 SSD up to 2TB each</li></ul>
<b>Card Reader</b>	3-in-1 Card Reader
<b>Optical</b>	DVD±RW
<b>Audio Chip</b>	High Definition (HD) Audio, Realtek® ALC233NL-VB2-CG codec
<b>Speakers</b>	3Wx2
<b>Camera</b>	5.0MP + IR Hybrid
<b>Microphone</b>	2x, Array
<b>Power Supply</b>	180W 90%
<b>DESIGN</b>	
<b>Display<sup>[4]</sup></b>	23.8" FHD (1920x1080) IPS Anti-glare 250nits, 60Hz, 99% sRGB, hardware low blue light, flicker free, eyesafe, non-touch
<b>Keyboard</b>	USB Traditional Keyboard, Black, English (EU)
<b>Mouse</b>	USB Calliope Mouse, Black

<b>Expansion Slots</b>	Models with Intel® UHD graphics: Three M.2 slots (one for WLAN, two for SSD)
<b>Case Color</b>	Black
<b>Stand</b>	Full Function Monitor Stand
<b>Mounting</b>	VESA mount
<b>Pen</b>	Pen Not Supported
<b>Form Factor</b>	AIO (23.8 inches)
<b>Dimensions (WxDxH)<sup>[5]</sup></b>	539.6 x 217.31 x 393.66-501.85 mm (21.24 x 8.56 x 15.50-19.76 inches)
<b>Weight<sup>[6]</sup></b>	Around 8.13 kg (17.9 lbs)
<b>CONNECTIVITY</b>	
<b>Ethernet</b>	Integrated 100/1000M
<b>WLAN + Bluetooth®</b>	Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3, vPro®
<b>WWAN</b>	Non-WWAN
<b>Rear Ports</b>	<ul style="list-style-type: none"><li>1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 15W charging</li><li>3x USB-A (USB 5Gbps / USB 3.2 Gen 1)</li><li>1x HDMI® (HDMI® in 1.4 / HDMI® out 2.1 TMDS combo port)</li><li>1x DisplayPort™ 1.4</li><li>1x Ethernet (RJ-45)</li></ul>
<b>Optional Rear Ports (configured)</b>	1x serial
<b>Right Ports</b>	<ul style="list-style-type: none"><li>3x USB-A (USB 10Gbps / USB 3.2 Gen 2)</li><li>1x headphone / microphone combo jack (3.5mm)</li></ul>
<b>Optional Right Ports (configured)</b>	1x card reader
<b>Optional Ports (configured)</b>	1x Serial
<b>SECURITY &amp; PRIVACY</b>	
<b>Security Chip</b>	Discrete TPM 2.0, TCG certified, FIPS 140-2 certified
<b>Fingerprint Reader</b>	No fingerprint reader

<b>Physical Locks</b>	Kensington® Security Slot™, 3 x 7 mm
<b>Chassis Intrusion Switch</b>	Chassis Intrusion Switch
<b>Other Security</b>	ThinkShutter camera cover (camera models)
<b>MANAGEABILITY</b>	
<b>System Management<sup>[7]</sup></b>	Non-vPro®

<b>SERVICE</b>	
<b>Base Warranty</b>	3-year, Onsite
<b>Included Upgrade</b>	1Y Premier Support from 3Y Onsite WHB (CPN)

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, Polish / English

MODEL

TopSeller

: Yes

Announce Date

: 2024-01-16

EAN / UPC / JAN

: 0197531651075

End of Support

: 2030-08-16

Note:

[1] Installed memory is actually DDR5-5600 but may run as DDR5-4800 depending on the memory support capability of Intel.

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

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

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to <https://psref.lenovo.com/Detail/2409?M=12SH0013PB>

## 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

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 upgrade from 1Y Premier Support (5WS1F52300)
BETTER	3Y Premier Support upgrade from 1Y Premier Support (5WS1C83308)
GOOD	2Y Premier Support upgrade from 1Y Premier Support (5WS1C83303)

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

**PSREF**  
Product Specifications  
Reference