

ThinkCentre M90a Gen 5

PERFORMANCE

Processor	Intel® Core™ i5-14500, 14C (6P + 8E) / 20T, P-core 2.6 / 5.0GHz, E-core 1.9 / 3.7GHz, 24MB
Graphics	Integrated Intel® UHD Graphics 770
Chipset	Intel® Q670 Chipset
Memory^[1]	1x 16GB SO-DIMM DDR5-4800
Memory Slots	Two DDR5 SO-DIMM slots, dual-channel capable
Max Memory^[2]	- Models with Core i3/i5: Up to 64GB DDR5-4800 - Models with Core i7: Up to 64GB DDR5-5200
Storage	1TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0
Storage Support^[3]	Models with Intel® UHD graphics: Up to two drives, 2x M.2 SSD • M.2 SSD up to 2TB each
Card Reader	3-in-1 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	180W 90%
DESIGN	
Display^[4]	23.8" FHD (1920x1080) IPS Anti-glare 250nits, 60Hz, 72% NTSC, software low blue light, flick free, touch
Touchscreen	10-point Multi-touch
Keyboard	USB Traditional Keyboard, Black, Italian
Mouse	USB Calliope Mouse, Black

Expansion Slots	Models with Intel® UHD graphics: Three M.2 slots (one for WLAN, two for SSD)
Case Color	Black
Stand	UltraFlex V Stand
Mounting	VESA mount
Pen	Pen Not Supported
Form Factor	AIO (23.8 inches)
Dimensions (WxDxH)^[5]	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^[6]	Around 7.83 kg (17.3 lbs)

CONNECTIVITY

Ethernet	Integrated 100/1000M
WLAN + Bluetooth®	Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3, vPro®
WWAN	Non-WWAN
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)
Optional Rear Ports (configured)	1x serial
Right Ports	3x USB-A (USB 10Gbps / USB 3.2 Gen 2) 1x headphone / microphone combo jack (3.5mm)

Optional Right Ports (configured)	1x card reader
Optional Ports (configured)	1x Serial

SECURITY & PRIVACY

Security Chip	Discrete TPM 2.0, TCG certified, FIPS 140-2 certified
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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 (camera models)

MANAGEABILITY

System Management^[7]	Intel® vPro® Enterprise
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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 - GREENGUARD® - RoHS compliant - TCO Certified 9.0 - TCO edge
Other Certifications	- TÜV Rheinland® Low Blue Light (Software 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, WE (EN/FR/DE/NL/IT)
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MODEL

TopSeller	: Yes	Announce Date	: 2024-01-16
EAN / UPC / JAN	: 0197531666338	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.....

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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.

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- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
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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...

Lenovo USB-C to Ethernet Adapter

The Lenovo USB-C to Ethernet Adapter is quick and easy way to connect your USB-C enabled notebook to Ethernet connections. It's ideal for imaging of systems or transferring large files quickly.

For a full list of accessories and services, please visit:
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Product Specifications
Reference