

ThinkCentre M90s Gen 5

PERFORMANCE

- Processor
- Intel® Core™ i5-14600, 14C (6P + 8E) / 20T, P-core 2.7 / 5.2GHz, E-core 2.0 / 3.9GHz, 24MB
- Graphics
- Integrated Intel® UHD Graphics 770
- Chipset
- Intel® Q670 Chipset
- Memory^[1]
- 1x 16GB UDIMM DDR5-4400
- Memory Slots
- Four DDR5 UDIMM slots, dual-channel capable
- Max Memory^[2]
- Up to 128GB DDR5
- Storage
- 512GB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0
- Storage Support^{[3][4]}
- Up to four drives, 1x 3.5" HDD + 1x 2.5" HDD + 2x M.2 SSD
 - 3.5" HDD up to 2TB
 - 2.5" HDD bay is only for customer self upgrade
 - M.2 SSD up to 2TB each
- Card Reader
- 3-in-1 Card Reader
- Optical
- DVD±RW
- Audio Chip
- High Definition (HD) Audio, Realtek® ALC897Q-CG codec
- Speakers
- 1Wx1
- Power Supply
- 310W 92%

DESIGN

- Keyboard
- USB Traditional Keyboard, Black, English (EU)
- Mouse
- USB Calliope Mouse, Black
- Optional Bay
- Optional 2.5" Bay
- Expansion Slots
- One PCIe® 4.0 x16 (x4 signal), low-profile, length ≤ 155mm, height ≤ 70mm
 - One PCIe® 4.0 x16, low-profile, length ≤ 155mm, height ≤ 70mm
 - One PCIe® 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm
 - Three M.2 slots (one for WLAN, two for SSD)

- Case Color
- Black
- Stand
- None
- Dust Filter
- None
- Pen
- Pen Not Supported
- Form Factor
- SFF (8.2L)
- Dimensions (WxDxH)^[5]
- 92.5 x 297.7 x 339.5 mm (3.6 x 11.7 x 13.4 inches)
- Weight^[6]
- Around 5.3 kg (11.7 lbs)

CONNECTIVITY

- Ethernet
- Integrated 100/1000M
- WLAN + Bluetooth®
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3, vPro®
- WWAN
- Non-WWAN
- Front Ports
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with 15W charging
 - 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
 - 2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
 - 1x headphone / microphone combo jack (3.5mm)
 - 1x microphone (3.5mm)
- Optional Front Ports (configured)
- 1x card reader
- Rear Ports
- 4x USB-A (USB 5Gbps / USB 3.2 Gen 1)
 - 1x HDMI® 2.1 TMDS
 - 2x DisplayPort™ 1.4a (HBR2, DSC)
 - 1x Ethernet (RJ-45)
 - 1x line-out (3.5mm)
- Optional Rear 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
 - Padlock Loop

- Smart Cable Clip
- None
- Chassis E-Lock
- None
- Chassis Intrusion Switch
- Chassis Intrusion Switch

MANAGEABILITY

- System Management^[7]
- Intel® vPro® Enterprise

SERVICE

- Base Warranty
- 3-year, Onsite
- Included Upgrade
- 1Y Premier Support from 3Y Onsite WHB (CPN)

CERTIFICATIONS

- Green Certifications
- ErP Lot 3
 - GREENGUARD®
 - RoHS compliant
 - TCO Certified 9.0
- Mil-Spec Test
- MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Solar Radiation, Contamination by Fluids, Salt Fog)

SOFTWARE

- Operating System
- Windows® 11 Pro, Polish / English
- Bundled Software
- None

ACCESSORIES

- Bundled Accessories
- None

MODEL

TopSeller	: Yes	Announce Date	: 2024-04-16
EAN / UPC / JAN	: 0197530615986	End of Support	: 2030-11-15

Note:

[1] Installed memory is actually DDR5-5600 but may run as DDR5-4400 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/2449?M=12V80006PB>

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 (5WS1F52294)
BETTER	3Y Premier Support upgrade from 1Y Premier Support (5WS1C83305)
GOOD	2Y Premier Support upgrade from 1Y Premier Support (5WS1C83297)

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

PSREF
Product Specifications
Reference