ThinkCentre M90s Gen 6

Built for the evolving demands of desk-based professionals, this desktop is powered by up to Intel® Core™ Ultra 9 Processor, merging raw performance with seamless multitasking. Integrated Intel® AI Boost accelerates creative and analytical workflows, enhancing tasks like 3D rendering, video editing, and data modeling with intelligent responsiveness. For professionals in design, engineering, or simulation, the optional NVIDIA® GeForce RTX™ 3050 unlocks precision graphics and fast frame rendering. And with up to 128GB DDR5 memory, multitasking across complex applications becomes second nature, ensuring smoother transitions from ideation to execution.

Whether managing financial dashboards or reviewing CAD blueprints, the system supports up to four independent displays, allowing professionals to organize their workspace without compromise. With high-speed Intel® Wi-Fi® 7 and versatile USB-A, USB-C, DisplayPort, and HDMI ports, staying connected and sharing data is effortless.

Engineered for long-term reliability, it supports up to five drives, HDD and SSD combinations, for both high capacity and fast access. Discrete TPM 2.0 and an optional chassis intrusion switch help safeguard sensitive work. 4o

Its compact SFF (8.2L) form factor ensures space optimization without compromising performance. Its sleek design fits easily into any workspace, providing powerful capabilities while maintaining a clutter-free and organized desk.

Empowering the modern workforce with a streamlined desktop experience

Lenovo Services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..

Return To Depot Repair Warranty

- No-hassle repair process at a Lenovo service center
- Lenovo pays for all shipping between the customer and service facility
- Avoid unplanned operational expense with a simple annual fee

Accessories

ThinkBook Bluetooth Silent Mouse

- Bluetooth mouse with silent buttons for noise-free operation
- Low-profile design suitable for both right-handed and left-handed users
- 4 buttons, 2-way scrolling with easy DPI adjustment: 2400, 1600, 800

PN: 4Y50X88824

ThinkVision P24h-30

- The 23.8" QHD resolution In-plane switching display offers exceptional viewing angles and picture quality.
- 3-side NearEdgeless bezels mean fewer distractions and a greater degree of audio and visual immersion.
- Built-in Natural Low Blue Light technology reduces eye fatigue and optimises comfort during long working hours.

ThinkCentre M90s Gen 6

Performance

Processor
Intel Core Ultra 5 / 7 / 9 Processor (Series 2)

Operating System*
Windows 11 Pro
Windows 11 Home
Windows 11 Home Single Language
Windows 11 IoT Enterprise LTSC 2024
Ubuntu Linux

NPU
Integrated Intel AI Boost, up to 13 TOPS
Discrete NPU card, up to 30 TOPS*

Graphics
Intel graphics (Integrated)
Intel Arc A310 LP 4GB
NVIDIA GeForce RTX 3050 6GB

Chipset
Intel Q870 chipset

Memory [1] [1] [1]
Up to 128GB DDR5, four UDIMM slots

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

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Storage [2] [3] [2] [3] [2] [3]
Support up to five drives, 1x 3.5" HDD + 1x 2.5" HDD + 3x M.2 SSD
- 2.5" HDD bay is only for customer self upgrade
- 3.5" HDD up to 2TB
- M.2 SSD up to 2TB each
- RAID 0/1/5 support

[2]*The max capacity of each disk type is based on the test results with current Lenovo storage offerings.*

[3]*2.5" HDD bay is optional part, only for customer self upgrade purpose and the hard drive is sold separately.*

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Optical*
DVD-ROM or DVD±RW*

Audio*
High Definition (HD) Audio
Single speaker, 1W x1

Power Supply*
400W 92%, 310W 92%, 260W 90% PSU

Design

Form factor
SFF (8.2L)

Dimensions [4] [4] [4]
92.5 x 299.7 x 339.5 mm (3.6 x 11.8 x 13.4 inches)

[4]*The system dimensions may vary depending on configurations.*

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Weight [5] [5] [5]
5.3 kg (11.7 lbs, maximum configuration)

[5]*The system weight is approximate and may vary depending on configurations*

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Color
Black

Bays
1x 2.5" disk bay*
1x 3.5" disk bay
1x slim ODD bay

Expansion Slots
One PCIe 5.0 x16
One PCIe 4.0 x16 (x4 signal)
Two PCIe 3.0 x1
Four M.2 slots (one for WLAN, three for SSD / discrete NPU)

Connectivity

Ethernet
Gigabit onboard Ethernet

WLAN + Bluetooth* [6] [6] [6]
802.11ax (Wi-Fi 6E) or 802.11be (Wi-Fi 7), Bluetooth 5.3 o 5.4
Up to Intel Wi-Fi 7 BE200, Bluetooth 5.4

[6]*Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

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Front ports
1x USB-C (USB 20Gbps / USB 3.2 Gen 2x2), 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 card reader*

Rear ports
2x USB-A (Hi-Speed USB / USB 2.0)
2x 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)
1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with DisplayPort function and 5V@3A charging (Flex IO)*
1x HDMI 2.1 TMDS (Flex IO)*
1x DP 1.2 (Flex IO)*
1x VGA (Flex IO)*
2x USB-A (Hi-Speed USB / USB 2.0), via 2-port adapter
2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via 2-port USB expansion card, PCIe x1*
1x parallel*
1x serial*
1x 2nd serial*
2x PS/2*

Security & Privacy

Security
Discrete TPM 2.0
Kensington Security Slot
Padlock Loop
E-lock*
Smart Cable Clip*
Chassis Intrusion Switch*