

ThinkCentre M90a Pro Gen 6

Powering through spreadsheets, simulations, or code compilations becomes effortless with up to Intel® Core™ Ultra 9 Processor—a force engineered for modern multitasking. Paired with up to 64GB DDR5-5600 memory, this desktop responds instantly to complex tasks like financial modeling, large dataset manipulation, or real-time architectural rendering. For professionals working in visual effects, CAD, or content creation, the optional NVIDIA® GeForce RTX™ 4050 graphics card unlocks accelerated workflows and enhanced realism. Together, these capabilities provide a fluid, uninterrupted experience, perfectly calibrated for desk-based professionals who demand consistent performance across diverse software environments.



**Empowering the modern
workforce with a streamlined
desktop experience**

From color-accurate photo editing to multitasking across dashboards, the 27" QHD display with 400nits brightness and 99% sRGB delivers clarity and precision. Seamless integration with high-speed networks and peripherals is made easy through Intel® Wi-Fi® 7, Thunderbolt™ 4/USB4, HDMI, and DisplayPort connectivity options.

With up to 6TB SSD storage, creative assets and project files are housed securely, while Discrete TPM 2.0 and optional Smart Human Presence Detection ensure data protection and intelligent user-aware privacy.

Designed for crisp web conferencing, it delivers High Definition (HD) Audio through stereo speakers, while the optional dual-microphone array captures voices clearly—ensuring professionals sound as sharp as they look in every virtual meeting.

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..



On-site Service

- On-site support if needed
- Normally next business day service
- Agreed appointment times

Accessories

Lenovo Go Wired Speakerphone

- Microsoft Teams certified, omni-directional far-field 2x microphones array
- Portable plug-and-play capabilities and effortless PC UC support
- Comes with intuitive control with volume wheel, tactile keys, and readable LEDs



PN: 4XD1C82055, CXD1C82051

ThinkPad Bluetooth Silent Mouse

- Left/Right hand, easy-to-carry low profile mouse
- Switch between 2 devices with dual-host Bluetooth 5.0 connectivity
- 2-way scrolling with on-the-fly DPI adjustment (2400, 1600, 800)



PN: With Battery : 4Y50X88822 Without Battery : 4Y50X88823



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Performance

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

Operating System* Windows 11 Pro Windows 11 Home Windows 11 Home Single Language
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NPU Integrated Intel AI Boost, up to 13 TOPS (Optional) Discrete NPU card, up to 30 TOPS*
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Graphics Intel Graphics (integrated) NVIDIA GeForce RTX 4050

Chipset Intel Q870 chipset

Memory ² Up to 64GB DDR5-5600, two SO-DIMM slots

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

Storage ³ Up to three drives, 3x M.2 SSD M.2 SSD up to 2TB each RAID 0/1 support

³The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

Optical* DVD-ROM or DVD±RW, USB external*

Audio* High Definition (HD) Audio Stereo speakers (5W x2), Dolby Atmos Dual-microphone array*

Camera* 5.0-megapixel RGB 5.0-megapixel RGB & IR hybrid 5.0-megapixel RGB & IR hybrid with Human Presence Detection

Power Supply* ⁴ 180W 90% adapter, 80 PLUS Gold qualified 230W 92% adapter, 80 PLUS Platinum qualified

⁴230W PSU is for discrete graphics models only

Design

Display 27" FHD (2560x1440) IPS display, Anti-glare, 16:9 - 400nits, 99% sRGB, hardware low blue light, flicker free, eyesafe 2.0 - 250nits, 99% sRGB, hardware low blue light, flicker free, eyesafe 2.0, Focus Sound
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Form factor AIO (27 inches)

Dimensions ⁵ Models (with UltraFlex V stand, with camera) Starting at (flat mode) 613.6 x 363.86 x 236.06 mm (24.16 x 14.33 x 9.29 inches) Models (with full function monitor stand, with camera) Starting at 613.6 x 222.21 x 415.18-560.18 mm (24.16 x 8.75 x 16.35-22.05 inches)

⁵The system dimensions may vary depending on configurations.

Weight ⁶ Models (without stand): 8.25 kg (18.19 lbs, maximum configuration) Models (with full function monitor stand): 12.31 kg (27.14 lbs, maximum configuration) Models (with UltraFlex V stand): 11.27 kg (24.85 lbs, maximum configuration)
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⁶The system weight is approximate and may vary depending on configurations

Color Black

Bays No bays

Expansion Slots Four M.2 slots (one for WLAN, three for SSD / discrete NPU)

Connectivity

Ethernet Gigabit onboard Ethernet

WLAN + Bluetooth* ⁷ 802.11be (Wi-Fi 7) or 802.11ax (Wi-Fi 6 / Wi-Fi 6E), Bluetooth 5.2, 5.3 or 5.4 Up to Realtek Wi-Fi 7 RTL8922AE, Bluetooth 5.4
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⁷Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

Rear ports 2x USB-A (USB 10Gbps / USB 3.2 Gen 2) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On 1x HDMI (HDMI in 1.4 / HDMI out 2.1 TMDS combo port) 1x DisplayPort 1.4a (HBR2) 1x Ethernet (RJ-45)
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Right ports 1x USB-A (USB 10Gbps / USB 3.2 Gen 2) 1x USB-C (Thunderbolt 4 / USB4 40Gbps), with USB PD 3.0 up to 65W output, DisplayPort 2.1, Always On 1x USB-C (USB 10Gbps / USB 3.2 Gen 2), support data transfer and 5V@3A charging 1x headphone / microphone combo jack (3.5mm) 1x card reader*

Security & Privacy

Security Discrete TPM 2.0, TCG certified, FIPS 140-2 certified Kensington Security Slot, 3 x 7 mm Chassis Intrusion Switch* Smart Human Presence Detection (Camera with Radar Sensor)* ThinkShutter camera cover (camera models)*

Manageability

System Management* ⁸ Intel vPro Enterprise*
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⁸Intel vPro offers a superset of DASH's defined capabilities.

Lenovo services

Base Warranty Up to 3-year limited onsite service

Certifications

Green Certifications ^{9 10} ENERGY STAR 9.0* EPEAT Gold Registered* ErP Lot 3 GREENGUARD RoHS compliant TCO Certified 10.0* TCO edge*
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⁹The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

¹⁰EPEAT is registered where applicable, please see epeat.net for registration status by country.

Other Certifications ¹¹ IP55-compliant (front face)* SGS Performance Tested certification : Super Quiet@Hi-Performance Grade 1 Eyesafe Certified 2.0 TÜV Rheinland Flicker Free TÜV Rheinland Low Blue Light (Hardware Solution) Anti-dust MIL-STD-810H
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¹¹IP55-compliant is not for the models with Focus Sound

Items with * are optional and only available on selected models. Information presented here may represent the maximum possible configurations for this product, but it does not necessarily reflect what is available in your region. Please ask your rep or check the specifications for specific Part Numbers in your region. © 2025 Lenovo. Products are available while supplies last. Lenovo is not responsible for photographic or typographic errors. Lenovo, the Lenovo logo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo. 3rd party product and service names may be trademarks of others. Depending on factors such as the processing capability of peripheral devices, file attributes, system configuration and operating environments, the actual data transfer rate of USB connectors will vary and is typically slower than published standards.