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GMKtec EVO-X1

GMKtec EVO-X1 AI Mini PC User Manual

AMD RYZEN AI 9 HX-370 SERIES

INTRODUCTION

The GMKtec EVO-X1 AI Mini PC is a compact yet powerful computing solution designed for a wide range of applications, from gaming and video editing to everyday productivity. Featuring the AMD Ryzen AI 9 HX-370 Series processor, this mini PC delivers impressive performance and advanced AI capabilities in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your EVO-X1 Mini PC.

Please read this manual thoroughly before using your device to ensure optimal performance and longevity.

WHAT'S IN THE BOX

Verify that all items are present in the packaging:

- GMKtec Nucbox EVO AMD Ryzen AI 9 HX 370 Mini PC Computer
- Power Supply & Cable
- HDMI Cable
- Vertical Stand
- User Manual



Image: All components included in the GMKtec EVO-X1 retail packaging.

PRODUCT OVERVIEW

Design and Connectivity

The EVO-X1 features a sleek, compact design with strategically placed ports for easy access and comprehensive connectivity. It can be used horizontally or vertically with the included stand.



Image: The GMKtec EVO-X1 Mini PC shown from multiple angles, highlighting its compact size and various ports.

Front Ports:

- **Oculink Port:** Enables higher bandwidth capabilities for eGPU setups.
- **USB4 (Type-C):** 40Gbps transfer speed, supporting PD3.0/DP1.4/DATA.
- **USB 3.2 (Gen2) x2:** High-speed USB-A ports.
- **3.5mm Audio Jack:** For headphones or microphones.
- **Power Button:** With integrated LED indicator.

Rear Ports:

- **USB 3.2 (Gen2) x2:** Additional high-speed USB-A ports.
- **HDMI 2.1:** Supports 8K@60Hz display output.
- **DisplayPort 2.1:** Supports 8K@60Hz display output.
- **Dual Intel i226V 2.5Gbps LAN (RJ45):** For high-speed wired network connections.
- **DC IN (19V 6.32A):** Power input.
- **Kensington Lock Slot:** For physical security.

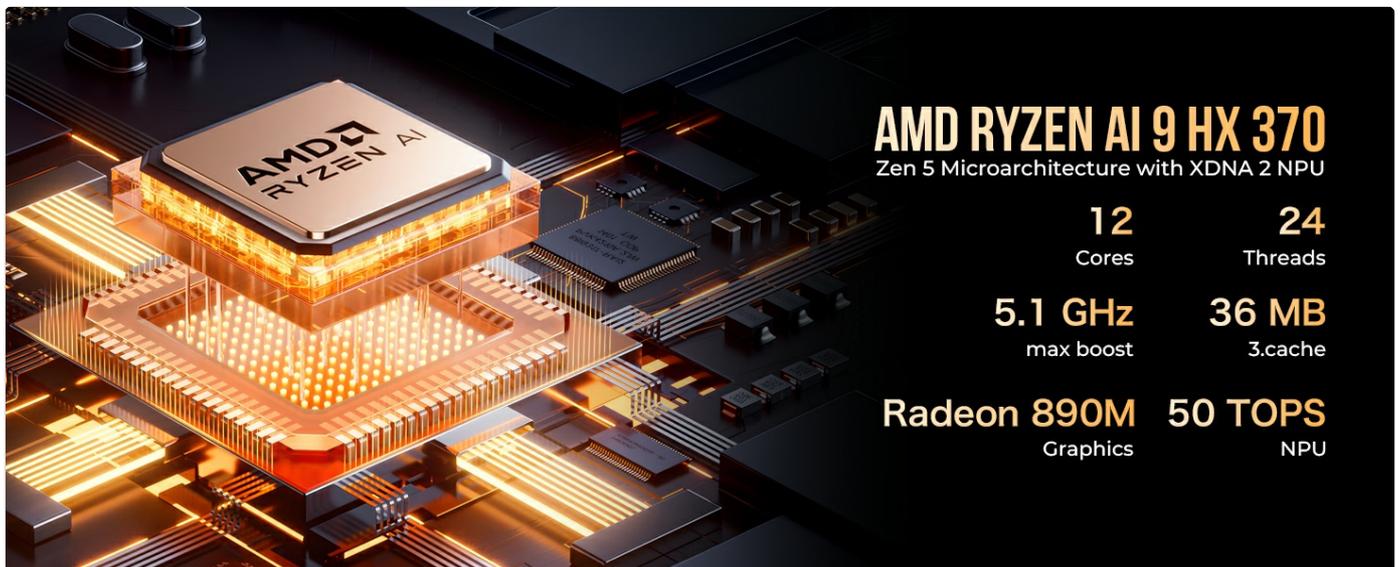


Image: A comprehensive diagram illustrating all front and rear ports of the EVO-X1 Mini PC.

Processor and Graphics

The EVO-X1 is powered by the AMD Ryzen AI 9 HX-370 Series processor, featuring the latest Zen 5 microarchitecture and an integrated AI NPU with XDNA 2 architecture. This provides up to 50 TOPS of AI processing power for demanding tasks.

Integrated graphics are handled by the AMD Radeon 890M (RDNA 3.5), which offers significant performance improvements over previous generations, making it suitable for gaming and graphic-intensive applications.



Image: Visual representation of the AMD Ryzen AI 9 HX-370 processor's core specifications and AI capabilities.

Memory and Storage

The mini PC comes with 32GB of LPDDR5X 7500MHz RAM, which is soldered on-board and not user-upgradable. It features dual PCIe 4.0 M.2 2280 SSD slots, supporting up to 4TB per slot for a total of 8TB storage capacity, allowing for significant storage expansion.



Image: An exploded view of the EVO-X1's internal components, highlighting the dual SSD slots and cooling system.

Cooling System

The EVO-X1 incorporates an upgraded dual cooling fan system with a Hyper Ice Chamber 2.0 design. This ensures 360-degree airflow and keeps fan noise to a minimum (35dB in Quiet mode) while maintaining optimal performance.

Display Support

Enjoy triple-screen 8K display support via HDMI 2.1, DisplayPort 2.1, and USB4 (Type-C) ports, ideal for multitasking, gaming, and video editing.

Network Connectivity

Equipped with dual Intel i226V 2.5Gbps LAN ports and Wi-Fi 6 with Bluetooth 5.2, the EVO-X1 offers versatile and high-speed network options for various applications.

SETUP

1. **Connect Display:** Connect your monitor(s) to the HDMI, DisplayPort, or USB4 (Type-C) ports using the provided HDMI cable or other compatible cables.
2. **Connect Peripherals:** Plug in your keyboard, mouse, and other USB devices into the available USB ports.
3. **Connect Power:** Connect the power supply to the DC IN port on the rear of the mini PC, then plug the power cable into a power outlet.
4. **Power On:** Press the power button on the front of the mini PC. The system will boot up and guide you through the initial Windows 11 Pro setup.
5. **Network Connection:** For optimal performance, connect an Ethernet cable to one of the 2.5Gbps LAN ports. Alternatively, connect to a Wi-Fi network during the Windows setup process.

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Video: An official overview of the GMKtec EVO-X1 Mini PC, demonstrating its features and connectivity. This video provides a visual guide to the physical setup of the device.

OPERATING INSTRUCTIONS

Performance Modes

The EVO-X1 AI Mini PC features three adjustable performance modes accessible via the UEFI (BIOS) settings:

- **Quiet Mode (35W):** Optimized for low noise and power consumption, suitable for light tasks.
- **Balance Mode (54W):** A balanced setting for everyday computing and moderate workloads.
- **Performance Mode (65W):** Maximizes CPU and GPU performance for demanding applications and gaming.

To change performance modes, access the UEFI (BIOS) during startup (usually by pressing F7 or ESC) and navigate to the PowerLimit Setting under the Main or Advanced tab.

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Video: A short instructional video demonstrating how to access and adjust the TDP (Thermal Design Power) settings in the BIOS of the GMKtec EVO-X1 Mini PC to switch between performance modes.

MAINTENANCE

Storage Upgrade

The EVO-X1 allows for easy storage upgrades. To access the M.2 SSD slots, gently slide the central section of the casing out. This will expose the two PCIe 4.0 M.2 2280 slots for adding or replacing SSDs.

Fan Cleaning

Regularly inspect the cooling fans for dust accumulation. To clean, carefully remove the top cover and use compressed air to clear any dust from the fan blades and heatsink fins. Ensure the device is powered off and unplugged before performing any maintenance.

TROUBLESHOOTING

Common Issues:

- **No Display:** Ensure all display cables are securely connected and the monitor is set to the correct input. Try different display ports.
- **Fan Noise:** The fan may become noisy under heavy load. Adjusting to 'Quiet Mode' in BIOS can reduce noise. Ensure proper ventilation around the device.
- **Slow Performance:** Check performance mode settings in BIOS. Ensure drivers are up to date. Verify SSD health and available storage space.
- **Wi-Fi Connectivity Issues:** Ensure Wi-Fi antennas are properly connected (if applicable) and drivers are updated. Consider using a wired Ethernet connection for maximum stability and speed.

SPECIFICATIONS

Feature	Specification
Brand	GMKtec
Model	EVO-X1
Processor	AMD Ryzen AI 9 HX-370 Series (up to 5.1GHz)
Graphics Coprocessor	AMD Radeon 890M 2900MHz
RAM	32GB LPDDR5X 7500MHz

Hard Drive	2TB PCIe 4.0 M.2 2280 SSD (Dual Slots, Max. 4TB Each)
Display Support	Triple Screen 8K (HDMI 2.1, DisplayPort 2.1, USB4)
Wireless Type	WiFi 6, Bluetooth 5.2
LAN	Dual Intel i226V 2.5Gbps
Operating System	OS Pro
Item Weight	3.91 pounds
Dimensions	7.32 x 7.28 x 5.35 inches

WARRANTY AND SUPPORT

GMKtec offers a 1-year limited warranty for each mini PC, starting from the date of purchase. All defects due to design and workmanship are covered.

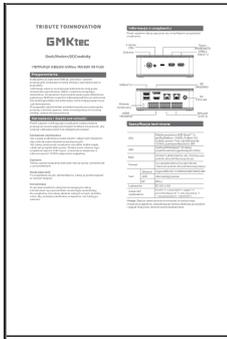
For professional after-sales service and technical support, you can contact GMKtec directly:

- **Email Support:** support@gmktec.com (24/7 Customer Support)
- **Amazon Support:** Log in to Amazon, go to 'Your Account' -> 'Your Orders', and select 'Ask Product Question' for assistance.

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Related Documents - EVO-X1

	<p>GMKtec NUCBOX EVO-X2 User Manual and Technical Specifications</p> <p>Comprehensive user manual for the GMKtec NUCBOX EVO-X2 Mini PC, detailing its features, technical specifications, connection steps, safety precautions, and FCC compliance.</p>
	<p>GMKtec Mini PC Instrukcja Obsługi i Specyfikacje Techniczne</p> <p>Kompleksowa instrukcja obsługi i przegląd specyfikacji technicznych dla serii komputerów GMKtec Mini PC, obejmująca modele takie jak NUCBOX, G-Series, M-Series, K-Series, Evo-Series i inne.</p>
	<p>GMKtec M6 Mini PC User Manual</p> <p>Comprehensive user manual for the GMKtec M6 Mini PC, detailing specifications, setup, operation, and troubleshooting for this compact desktop computer powered by AMD R5 6600H.</p>



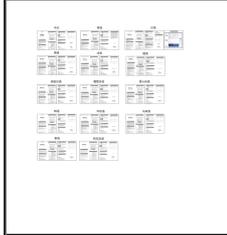
[GMKtec NUCBOX M5 PLUS User Manual and Safety Guide](#)

Comprehensive user manual for the GMKtec NUCBOX M5 PLUS mini PC, detailing setup, specifications, safety precautions, and warranty information. Learn how to connect your device, access BIOS, and ensure safe operation.



[GMKtec NUCBOX K1/K2 Mini PC User Manual - Setup, Specifications, and Support](#)

Comprehensive user manual for the GMKtec NUCBOX K1 and K2 Mini PCs, detailing setup procedures, technical specifications for both models, connectivity options, warranty information, and customer support contacts.



[GMKtec NUCBOX M5 PLUS User Manual](#)

User manual for the GMKtec NUCBOX M5 PLUS mini PC, detailing its features, specifications, connection steps, and basic settings. Includes safety precautions and warranty information.