

AOOSTAR G-FLIP AI370

AOOSTAR G-FLIP AMD Ryzen AI 9 HX 370 Mini PC Instruction Manual

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your AOOSTAR G-FLIP AMD Ryzen AI 9 HX 370 Mini PC. Please read it carefully to ensure optimal performance and longevity of your device.

The AOOSTAR G-FLIP AI 9 HX 370 Mini PC is a high-performance computing device featuring an AMD Ryzen AI 9 HX 370 processor, AMD Radeon 890M graphics, and a unique 5-inch HD foldable touch secondary screen. It supports extensive connectivity options including USB4, OCuLink, dual 2.5G LAN, and Wi-Fi 7, designed for versatile use in various environments.

SETUP GUIDE

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all included accessories are present:

- 1x AOOSTAR G-FLIP AI 9 HX 370 Mini PC (barebone)
- 1x Power Adapter
- 1x User Manual (this document)
- 1x HD Cable

Inspect the Mini PC for any signs of physical damage. If any components are missing or damaged, contact customer support immediately.

2. Installing RAM and SSD (Barebone Models)

This Mini PC is a barebone model, meaning it does not come with pre-installed RAM, SSD, or an operating system. You will need to install these components before first use.

Caution: Ensure the Mini PC is powered off and disconnected from all power sources before opening the chassis or installing components.

The device supports dual DDR5-5600 SODIMM slots (up to 128GB total) and dual M.2 2280 NVME SSD slots (up to 8TB total).

Dual-channel DDR5 memory and Dual M.2 PCIe4.0 SSD

Pluggable memory for flexible expansion

The pluggable storage solution delivers unmatched flexibility and scalability. Easily upgrade memory or drives to meet future needs—no device obsolescence worries, just adapt on demand



Image: Internal layout of the AOOSTAR G-FLIP AI370 Mini PC, highlighting the dual-channel DDR5 memory slots and dual M.2 PCIe 4.0 SSD slots for user-upgradable storage and memory.

1. **Accessing the Interior:** Refer to the quick start guide or manufacturer's website for specific instructions on how to safely open the Mini PC chassis.
2. **Install RAM:** Gently insert DDR5 SODIMM modules into the memory slots, ensuring they are properly seated until the clips snap into place.
3. **Install M.2 NVME SSDs:** Insert M.2 2280 NVME SSDs into the designated slots. Secure them with the provided screws or retention clips. The device includes a heatsink for the extra SSD.
4. **Close Chassis:** Carefully reassemble the Mini PC chassis, ensuring all connections are secure.

3. Connecting Peripherals

Connect your monitor(s), keyboard, mouse, and other peripherals to the appropriate ports on the Mini PC.



Image: Detailed view of the front and rear interface panels of the AOOSTAR G-FLIP AI370 Mini PC, illustrating the various ports for connectivity.

- **Display:** Connect your primary monitor to the HDMI or DisplayPort (DP) on the rear panel. For additional displays, use the USB4 ports.
- **Network:** Connect an Ethernet cable to one of the dual 2.5G LAN ports for wired internet access.
- **Power:** Connect the power adapter to the DC power input on the rear panel and then to a power outlet.

4. Operating System Installation

Since this is a barebone unit, you will need to install an operating system (e.g., Windows 11 Pro, Linux) from a bootable USB drive.

1. Insert your bootable USB drive into an available USB port.
2. Power on the Mini PC. You may need to press a specific key (e.g., DEL or ESC) during startup to enter the BIOS/UEFI settings and configure the boot order to prioritize the USB drive.
3. Follow the on-screen instructions to install your preferred operating system.

OPERATING INSTRUCTIONS

1. Power On/Off

- **Power On:** Press the power button located on the front panel. The system will begin to boot.
- **Power Off:** From your operating system, select "Shut Down" or "Power Off". Alternatively, you can press and hold the power button for 5-7 seconds to force a shutdown (not recommended for regular use).

2. Using the 5-inch HD Secondary Screen

The AOOSTAR G-FLIP AI 9 HX 370 features an innovative 5-inch HD foldable touch secondary display (1920x1080 @ 60Hz). This screen can function as a standard monitor with touch capabilities.



Image: The AOOSTAR G-FLIP AI370 Mini PC with its integrated 5-inch 1920x1080 secondary display, which can be folded out for system monitoring or additional workspace.

- **Functionality:** Use it for real-time system monitoring, displaying widgets, or as an extended desktop for productivity.
- **Touch Control:** Interact directly with the screen using touch gestures.
- **Adjustability:** The screen is foldable, allowing for angle adjustments up to 65 degrees for optimal viewing.

3. Connectivity and Ports

The Mini PC offers a wide range of ports for diverse connectivity needs:

- **Front Panel:**
 - 1x Audio Port (3.5mm jack)
 - 2x USB3.2 Gen 2 ports
 - 1x USB4 port (40Gbps transfer speed)
 - 1x Reset Button
- **Rear Panel:**
 - 1x DC Power Input

- 1x USB4 port (40Gbps transfer speed)
- 2x 2.5G LAN ports (for high-speed wired network)
- 1x HDMI 2.1 port
- 1x DisplayPort (DP)
- 1x OCuLink port (non-hot-swappable)
- 2x USB 2.0 ports

- **Wireless Connectivity:** Built-in Wi-Fi 7 and Bluetooth 5.2 for seamless wireless connections.

4. Multi-Display Setup

The Mini PC supports up to 3 simultaneous external displays (not including the built-in secondary screen) via the HDMI, DisplayPort, and USB4 ports.



Image: The AOOSTAR G-FLIP AI370 Mini PC connected to three external displays, showcasing its multi-screen productivity capabilities.

- Connect your monitors to the available HDMI, DP, and USB4 ports.
- Configure display settings within your operating system to extend or duplicate your desktop.

5. OCuLink Port Usage

The dedicated OCuLink port on the rear panel provides lower latency and higher GPU performance fidelity than USB4 when connecting an external GPU (eGPU).



Image: The AOOSTAR G-FLIP AI370 Mini PC connected to an external graphics card via its independent OCuLink port, designed for flexible expansion and enhanced graphics performance.

Important Note: Always turn off the Mini PC before plugging or unplugging the OCuLink interface to avoid motherboard damage. Damage from misuse is not covered under warranty.

Product Overview Video

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Video: An official AOOSTAR video showcasing the G-FLIP AI 370 Mini PC's design and key features, including its unique secondary screen and various connectivity options.

MAINTENANCE

1. Cooling System

The Mini PC utilizes Vapor Chamber (VC) cooling technology to ensure efficient heat dissipation and stable performance, even under heavy workloads.



Image: Cross-sectional diagram illustrating the Vapor Chamber (VC) cooling system within the AOOSTAR G-FLIP AI370 Mini PC, designed for optimal thermal management.

- Ensure proper airflow around the Mini PC. Do not block ventilation openings.
- Regularly clean dust from the vents using compressed air to prevent overheating.

2. General Cleaning

- Use a soft, dry cloth to clean the exterior of the Mini PC.
- Avoid using liquid cleaners or abrasive materials, as they may damage the finish.

TROUBLESHOOTING

If you encounter issues with your AOOSTAR G-FLIP AI 9 HX 370 Mini PC, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
 - Test the power outlet with another device to confirm it is functional.
 - Verify the power adapter is not damaged.
- **No Display Output:**

- Check that the display cable (HDMI, DP, USB-C) is securely connected to both the Mini PC and the monitor.
 - Ensure the monitor is powered on and set to the correct input source.
 - Try a different display cable or monitor if possible.
 - If using an OCuLink eGPU, ensure the Mini PC was powered off before connecting the cable.
- **Operating System Not Loading:**
 - Verify that an operating system has been correctly installed (for barebone models).
 - Check the boot order in the BIOS/UEFI settings to ensure the correct drive is selected.
 - **System Instability/Freezing:**
 - Ensure RAM modules are properly seated.
 - Check for adequate ventilation to prevent overheating.
 - Update device drivers and operating system to the latest versions.

For further assistance, please contact AOOSTAR customer support.

SPECIFICATIONS

Below are the technical specifications for the AOOSTAR G-FLIP AI 9 HX 370 Mini PC:

Feature	Specification
Processor	AMD Ryzen AI 9 HX 370 (12C/24T, up to 5.1GHz)
Graphics	AMD Radeon 890M (2900MHz, 50 TOPS NPU)
RAM (Barebone)	2x DDR5-5600 SODIMM slots (up to 128GB total)
Storage (Barebone)	2x M.2 2280 NVME SSD slots (up to 8TB total)
Secondary Display	5-inch HD Foldable Touch Screen (1920x1080 @ 60Hz)
Video Outputs	1x HDMI 2.1, 1x DisplayPort, 2x USB4 (supports up to 3 external displays)
USB Ports	2x USB4 (40Gbps), 2x USB3.2 Gen 2, 2x USB 2.0
Network	2x 2.5G LAN, Wi-Fi 7
Other Ports	1x OCuLink, 1x 3.5mm Audio Jack, 1x DC Power Input, 1x Reset Button
Cooling	Vapor Chamber (VC) Cooling Technology
Weight	Approximately 2.2 pounds

WARRANTY & SUPPORT

Warranty Information

The AOOSTAR G-FLIP AI 9 HX 370 Mini PC is eligible for a 3-Year Protection Plan. Please refer to your purchase documentation for details on activating and utilizing this plan.

Note: Damage resulting from misuse, such as improper connection/disconnection of the OCuLink interface while the device is powered on, may void your warranty.

Customer Support

For technical assistance, troubleshooting, or warranty claims, please visit the official AOOSTAR website or contact their customer support team through the contact information provided with your purchase.

Online resources, including FAQs and driver downloads, may also be available on the [AOOSTAR Store Page](#).