

## AOOSTAR GT68

# AOOSTAR GT68 Mini PC User Manual

Model: GT68

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your AOOSTAR GT68 Mini PC. Please read it thoroughly before using the device to ensure optimal performance and longevity.

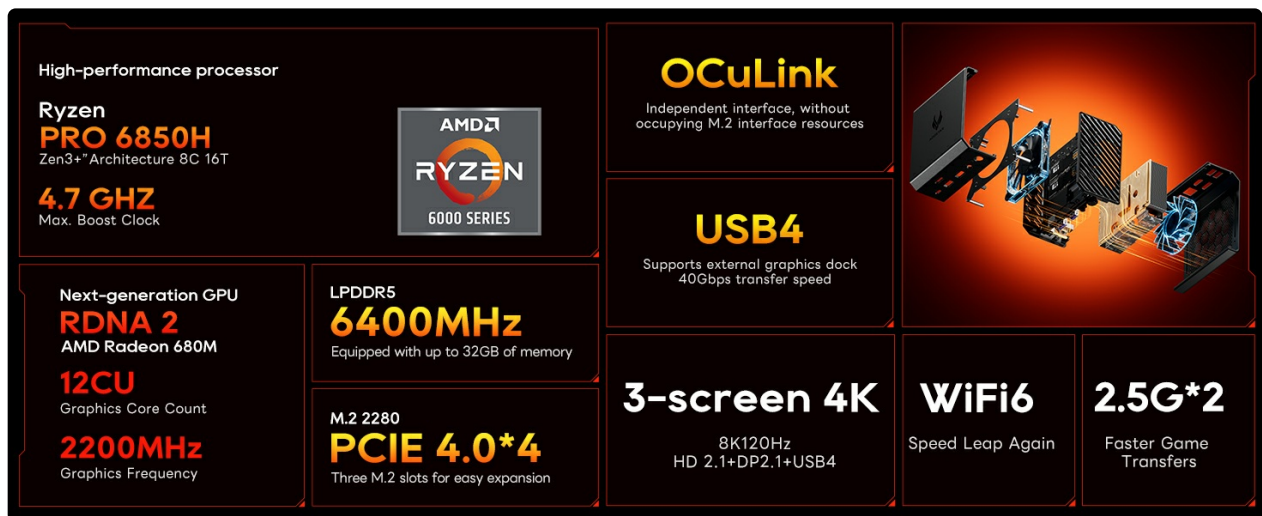


Figure 1: AOOSTAR GT68 Mini PC Key Features Overview

The AOOSTAR GT68 Mini PC is a compact and powerful computing solution, equipped with an AMD Ryzen 7 PRO 6850H processor and integrated AMD Radeon 680M graphics. It is designed for multitasking, gaming, and demanding professional applications, offering extensive connectivity and expandability options.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- AOOSTAR GT68 Mini PC Unit
- Power Adapter and Cable
- HDMI Cable
- User Manual (this document)

- VESA Mount Bracket and Screws
- (Note: A keyboard is listed in the product details, but specific model or type is not provided. Please refer to your purchase for exact keyboard inclusion.)

### 3. PRODUCT OVERVIEW

#### 3.1. Front Panel

High-performance processor

**Ryzen**  
**PRO 6850H**  
Zen 3+™ Architecture 8C 16T

**4.7 GHZ**  
Max. Boost Clock



Next-generation GPU

**RDNA 2**  
AMD Radeon 680M

**12CU**  
Graphics Core Count

**2200MHz**  
Graphics Frequency

LPDDR5

**6400MHz**  
Equipped with up to 32GB of memory

M.2 2280

**PCIe 4.0\*4**  
Three M.2 slots for easy expansion

**OCuLink**  
Independent interface,  
without occupying M.2 interface resources

**USB4**  
Supports external graphics dock  
40Gbps transfer speed



**3-screen 4K**  
8K120Hz  
HD 2.1+DP2.1+USB4

**WiFi6**  
Speed Leap Again

**2.5G\*2**  
Faster Game Transfers

Figure 2: Front Panel Layout

- **Power Button:** To power on/off the device.
- **USB Ports:** Multiple USB-A ports for connecting peripherals.

- **Audio Jack:** For headphones or external speakers.

### 3.2. Rear Panel

# 「high-speed solid-state」 **PCIe 4.0 x4** **with three M.2 slots**

It supports three drive bays, including 2\* M.2 2280 PCIe 4.0 slots and 1\* M.2 2230 PCIe 4.0 slot. It offers ultra-high-speed data storage and reading capabilities, perfectly meeting the demands for large-capacity and high-speed storage.



Figure 3: Rear Panel Layout

- **HDMI 2.1 Port:** Connects to a display for video and audio output.
- **DisplayPort 2.1:** Connects to a display for video and audio output.
- **USB4 Port:** High-speed data transfer and video output (supports 8K resolution).
- **Oculink Port:** Dedicated high-speed interface for external graphics cards (eGPUs) or storage devices.
- **2.5G LAN Ports (x2):** For wired network connectivity.
- **DC-IN Port:** Connects to the power adapter.





Figure 4: Compact Design and Dimensions

The GT68 Mini PC features an ultra-compact design, measuring approximately 11.2 cm in width and 6 cm in height, making it suitable for various setups and limited desk spaces. The metal casing ensures durability and efficient heat dissipation.

## 4. SETUP GUIDE

### 4.1. Connecting Peripherals

1. **Monitor:** Connect your monitor(s) to the HDMI 2.1, DisplayPort 2.1, or USB4 ports on the rear panel using appropriate cables. The device supports up to three displays simultaneously at 8K resolution.

2. **Keyboard & Mouse:** Connect your USB keyboard and mouse to the available USB-A ports on the front or rear panel.
3. **Network:** For wired internet access, connect an Ethernet cable to one of the 2.5G LAN ports on the rear panel. For wireless connectivity, ensure the device's Wi-Fi 6 is enabled.
4. **Power:** Connect the power adapter to the DC-IN port on the rear panel, then plug the power cable into a power outlet.

## 4.2. Powering On

Press the Power Button on the front panel. The device will boot up, and the operating system (likely Windows 11 Pro) will load.

## 5. OPERATING INSTRUCTIONS

### 5.1. Initial Operating System Setup

Upon first boot, follow the on-screen instructions to complete the Windows 11 Pro setup, including language, region, network connection, and user account creation.

### 5.2. Display Configuration

The AOOSTAR GT68 supports triple-screen display output at up to 8K resolution (120Hz refresh rate). To configure multiple displays:

- Connect your displays to the HDMI 2.1, DisplayPort 2.1, and USB4 ports.
- In Windows, right-click on the desktop and select 'Display settings'.
- Arrange your displays, set resolutions, and choose display modes (e.g., Extend, Duplicate).

### 5.3. Storage Expansion

The GT68 Mini PC features three PCIe 4.0\*4 SSD slots, allowing for significant storage expansion. This enables users to install additional M.2 NVMe SSDs for increased capacity or to run multiple operating systems.



Figure 5: Three PCIe 4.0 x4 M.2 SSD Slots

To install or upgrade SSDs, carefully open the chassis (refer to the Maintenance section for general access) and locate the M.2 slots. Secure the new SSDs with screws.

### 5.4. Memory Upgrade

The device comes with 16GB of LPDDR5 RAM running at 6400MHz. While the RAM is soldered, some models may offer additional slots for expansion up to 96GB. Consult the specific model's internal layout for upgrade possibilities.





Figure 6: LPDDR5 6400MHz Memory

### 5.5. Oculink Port Usage

The Oculink port provides a direct PCIe 4.0 x4 connection, offering lower latency and higher stability compared to traditional interfaces. It is ideal for connecting external graphics cards (eGPUs) or high-speed storage devices, enhancing performance for demanding tasks like gaming, video editing, and 3D rendering.



Figure 7: High-Speed Oculink Port

### 5.6. Network Connectivity

The Mini PC supports Wi-Fi 6 for high-speed wireless connections and features dual 2.5G Ethernet ports for robust wired networking. This ensures fast and stable connectivity for streaming, online gaming, and live broadcasting.



Figure 8: WiFi 6 and Dual 2.5G Ethernet

## 6. MAINTENANCE

### 6.1. Cooling System

The AOOSTAR GT68 incorporates an 'Ice Glacier Cooling 3.0' system, featuring advanced silent turbo fans, efficient VC sparse heat conduction, and three-dimensional air inlet designs. This system is designed to minimize operational noise and maintain optimal temperatures during extended use.



Figure 9: Ice Glacier Cooling 3.0 System

### 6.2. Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain efficient cooling. Do not use liquid cleaners directly on the device.

## 7. TROUBLESHOOTING

If you encounter issues with your AOOSTAR GT68 Mini PC, try the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the device and a working power outlet.
- **No Display:** Verify that display cables are correctly connected to both the Mini PC and the monitor. Try a different port or cable if available.
- **No Internet:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure Wi-Fi is enabled and connected to the correct network.

- **Performance Issues:** Close unnecessary applications. Check for system updates. Ensure adequate ventilation around the device.

For further assistance, please contact AOOSTAR customer support.

## 8. SPECIFICATIONS

Feature	Detail
Processor	AMD Ryzen 7 PRO 6850H (8C/16T, up to 4.7GHz)
Graphics	Integrated AMD Radeon 680M (12-core)
RAM	16GB LPDDR5 6400MHz (Expandable up to 96GB, consult specific model)
Storage	512GB PCIe 4.0x4 SSD (3 M.2 SSD slots available)
Video Output	HDMI 2.1, DisplayPort 2.1, USB4 (Supports Triple 8K@120Hz)
Connectivity	Wi-Fi 6, Dual 2.5G Ethernet
Ports	USB4, Oculink, Multiple USB-A, Audio Jack
Cooling System	Ice Glacier Cooling 3.0 (Silent Turbo Fans, VC Sparse Heat Conduction)
Dimensions	Approx. 11.2 x 6 cm
Operating System	Windows 11 Pro (Pre-installed on some configurations)

## 9. WARRANTY AND SUPPORT

AOOSTAR provides 24 months of after-sales service from the date of order. For any product-related questions or support, please contact us through inquiry or email channels provided at the point of purchase.

## 10. OFFICIAL PRODUCT VIDEO

Video 1: AOOSTAR GT68 R7 PRO 6850H Mini PC Overview. This video provides a visual overview of the AOOSTAR GT68 Mini PC, showcasing its design, features, and connectivity options.