

FIREBAT A8

FIREBAT Mini PC A8 User Manual

Model: A8 | Brand: FIREBAT

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your FIREBAT Mini PC A8. The FIREBAT A8 is a compact, high-performance mini computer equipped with an AMD Ryzen 8745HS processor, AMD Radeon 780M graphics, and an OCuLink port for external GPU expansion. It supports quad-screen display and offers versatile connectivity options. Please read this manual thoroughly to ensure proper use and to maximize the performance of your device.



Image 1.1: Front and rear view of the FIREBAT Mini PC A8, showcasing its compact design and various ports.



Image 1.2: Overview of the FIREBAT A8 Mini PC, highlighting its core features and design.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x FIREBAT A8 AMD Ryzen 7 8745HS Mini PC
- 1 x US Power Supply (19V 6.32A 120W)
- 1 x VESA Mount
- 1 x HDMI Cable
- 1 x User Manual (this document)



Image 2.1: Visual representation of the items included in the FIREBAT A8 package.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Processor:** AMD Ryzen 7 8745HS (8 Cores/16 Threads, up to 4.9GHz)
- **Graphics:** Integrated AMD Radeon 780M
- **Memory:** 32GB DDR5 5600MHz RAM (expandable up to 64GB)
- **Storage:** 1TB PCIe 4.0 M.2 2280 SSD
- **Connectivity:** WiFi 6 (802.11ax), Bluetooth 5.2, Dual 2.5Gbps RJ45 LAN
- **Display Output:** Quad-screen support via 2x USB-C 4.0, 1x DP 1.4, 1x HDMI 2.1
- **Expansion:** OCuLink port for external graphics card support
- **Performance Modes:** One-click switch for Quiet (45W), Balanced (54W), and Performance (65W) modes



Image 3.1: Diagram highlighting the main components and features of the FIREBAT A8 Mini PC.

3.2 Ports and Interfaces

The FIREBAT A8 Mini PC offers a comprehensive set of ports for various peripherals and displays.

- 1x OCuLink port (for external graphics card)
- 1x TF Card Slot
- 2x USB-C 4.0 (supports Power Delivery, DisplayPort, up to 40Gbps data transfer)
- 4x USB 3.2 Gen2 (up to 10Gbps data transfer)
- 2x USB 2.0 (up to 5Gbps data transfer)
- 1x Kensington Anti-theft Lock Hole
- 1x DisplayPort 1.4
- 1x HDMI 2.1
- 2x 3.5mm Audio Jacks (Headphone & Microphone)
- 2x 2.5Gbps RJ45 LAN ports
- 1x DC Power Input

- 1x Power Button

Rich Upgraded Interfaces and Compatibility



Image 3.2: Detailed diagram illustrating the location and type of all ports and interfaces on the FIREBAT A8 Mini PC.

4. SETUP INSTRUCTIONS

4.1 Initial Connection

1. **Connect Display:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort, or USB-C 4.0 ports. The device supports up to four displays simultaneously.
2. **Connect Peripherals:** Plug in your keyboard, mouse, and other USB devices into the available USB ports.
3. **Connect Network:** For a wired connection, connect an Ethernet cable to one of the 2.5Gbps RJ45 LAN ports. For wireless, ensure your WiFi network is available.
4. **Connect Power:** Connect the provided power adapter to the DC power input port on the Mini PC, then plug the adapter into a power outlet.
5. **Power On:** Press the power button located on the front of the Mini PC to turn on the device.

4.2 VESA Mount Installation

The included VESA mount allows you to attach the Mini PC to the back of a compatible monitor or to a wall mount,

saving desk space.

1. Secure the VESA mount bracket to the back of your monitor or desired surface using appropriate screws.
2. Slide the Mini PC onto the mounted bracket until it clicks securely into place.

5. OPERATING INSTRUCTIONS

5.1 Performance Modes

The FIREBAT A8 features a one-click performance mode switch, allowing you to adjust power consumption and performance based on your needs. The LED indicator on the device will change color to reflect the current mode.

- **Green (Quiet Mode - 45W):** Ideal for office tasks, web browsing, and light applications where low noise and power efficiency are prioritized.
- **Blue (Balanced Mode - 54W):** Suitable for medium workloads, general computing, and moderate applications.
- **Red (Performance Mode - 65W):** Provides maximum performance for demanding tasks such as gaming, video editing, and other high-load applications.



Image 5.1: The performance mode switch button and its corresponding LED indicators.



Image 5.2: Visual representation of the 65W Performance Mode in action.

5.2 Multi-Screen Display

The FIREBAT A8 supports simultaneous output to up to four screens, enhancing productivity and immersive experiences.

- HDMI 2.1 port supports up to 8K@60Hz resolution.
- USB-C 4.0 ports support up to 4K@144Hz resolution.
- DisplayPort 1.4 also supports high-resolution output.

Connect your displays to the available video output ports and configure your display settings within the operating system.

AMD Radeon 780M core graphics

Can play competitive online games at FHD resolution

2.6GHz

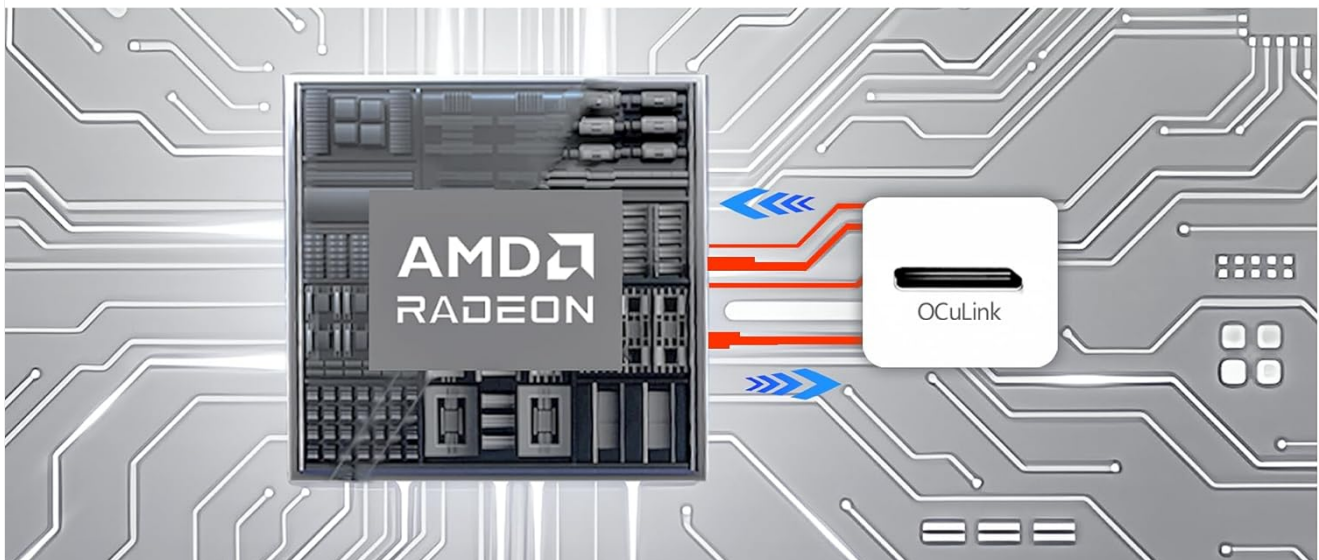
frequency

12

cores

2800+

TimeSpy score



With an OCuLink interface, you can connect an external graphics card through the graphics dock to expand more possibilities

Image 5.3: Example setup demonstrating the quad-screen display capability of the Mini PC.

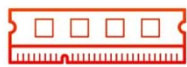
6. STORAGE AND MEMORY EXPANSION

The FIREBAT A8 allows for easy upgrades of both RAM and SSD storage to meet future demands.

- **Memory:** The device comes with 32GB DDR5 5600MHz RAM (2x16GB SO-DIMM). It supports dual-channel memory and can be expanded up to 64GB.
- **Storage:** It includes a 1TB PCIe 4.0 M.2 2280 SSD. There is an additional slot for another M.2 2280 SSD, allowing for further storage expansion.

To access the internal components for upgrade, carefully remove the bottom cover of the Mini PC. Consult a professional if you are unsure about the upgrade process.

Expandable Larger Capacity



16GB X2
(64GB Max)

DDR5 5600MHz
Dual Channel SO-DIMM
Memory Interfaces



1TB
(2TB Max)

PCIe 4.0
M.2 2280 SSD Interface

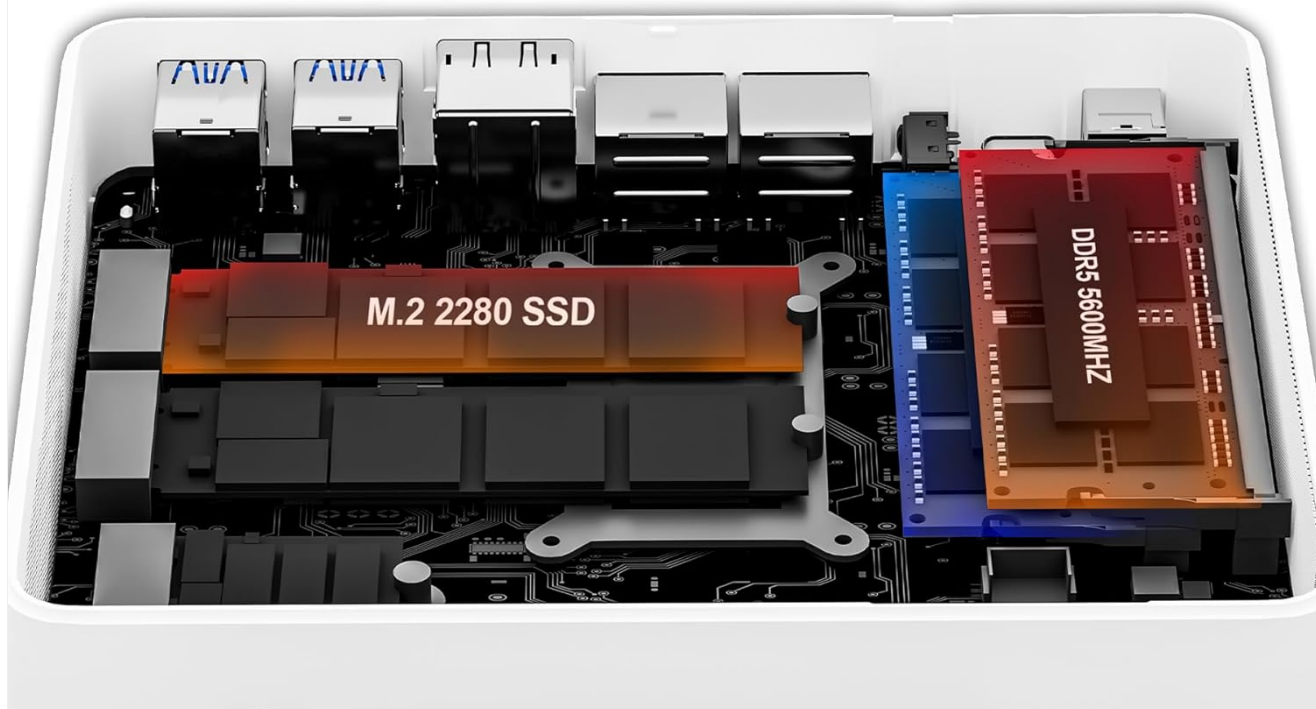
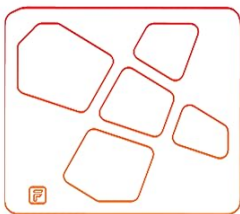


Image 6.1: Internal view of the FIREBAT A8, highlighting the DDR5 SO-DIMM memory slots and the M.2 2280 SSD slot.

Package List



FIREBAT A8 MINI PC
(AMD Ryzen7 8745HS)



DC US Adapter
(19V/6.32A 120W)



User Manual



VESA Mount



HDMI Cable

Image 6.2: Close-up of the internal layout, showing the M.2 SSD and DDR5 RAM modules for potential upgrades.

7. COOLING AND NOISE MANAGEMENT

The FIREBAT A8 is designed with an efficient dual-fan cooling system, incorporating thermal grease and three heat pipes to maintain optimal operating temperatures and minimize noise.

Dual fan cooling

System fan cools the whole machine
CPU fan cools the processor



Fans



HE
Thermal Grease



Heat Pipes

65W
Stable
Performance
Release



65W
Performance
mode



54W
Balanced
mode



45W
Quiet
mode



Image 7.1: Diagram illustrating the dual-fan cooling system and heat dissipation within the Mini PC.



Image 7.2: Information on the low noise levels of the FIREBAT A8 during operation.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	AMD Ryzen 7 8745HS (3.8 GHz base, up to 4.9 GHz turbo, 8 Cores/16 Threads, 16MB L3 Cache)
Graphics	AMD Radeon 780M (Integrated)
RAM	32GB DDR5 5600MHz (SODIMM, expandable to 64GB)
Storage	1TB PCIe 4.0 M.2 2280 SSD (with additional M.2 slot)
Operating System	Default (typically Windows 11 Pro)
Wireless Connectivity	WiFi 6 (802.11ax), Bluetooth 5.2
LAN	2x 2.5Gbps RJ45 Ethernet
Video Output	2x USB-C 4.0 (4K@144Hz), 1x DisplayPort 1.4, 1x HDMI 2.1 (8K@60Hz)
USB Ports	2x USB-C 4.0, 4x USB 3.2 Gen2, 2x USB 2.0
Other Ports	1x OCuLink, 1x TF Card Slot, 2x 3.5mm Audio Jack (HP&MIC), 1x Kensington Lock
Dimensions (LxWxH)	5.7 x 5 x 2 inches (14.6 x 12.6 x 5 cm)
Weight	1.5 pounds (0.68 kg)
Power Supply	19V 6.32A (120W)



Image 8.1: The compact dimensions of the FIREBAT A8 Mini PC.

9. TROUBLESHOOTING

9.1 No Power

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check if the power adapter's LED indicator (if any) is lit.

9.2 No Display Output

- Confirm that the display cable (HDMI, DP, USB-C) is firmly 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 port on the Mini PC.
- If using multiple displays, try connecting only one display at a time to isolate the issue.

9.3 Network Connectivity Issues

- **Wired:** Check the Ethernet cable connection to both the Mini PC and your router/modem. Verify router/modem status.
- **Wireless:** Ensure WiFi is enabled in the operating system. Check if the correct WiFi network is selected and the password is entered correctly. Restart your router/modem.

9.4 System Performance Issues

- Ensure the Mini PC is set to an appropriate performance mode (Balanced or Performance) for demanding tasks.
- Check for background applications consuming excessive resources.
- Ensure adequate ventilation around the Mini PC to prevent overheating.
- Update drivers and operating system.

10. WARRANTY AND SUPPORT

FIREBAT is committed to providing quality products and customer satisfaction. For warranty information, technical support, or any inquiries regarding your FIREBAT Mini PC A8, please contact us through the following channels:

- **Email Support:** support@firebatpc.com
- **Official Website:** www.firebatpc.com

Please have your product model (A8) and purchase details ready when contacting support.

