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FIREBAT MN56, A6

FIREBAT Mini PC MN56 and A6 Series User Manual

Models: MN56 (Ryzen7 8745HS) & A6 (Ryzen7 6800H)

1. INTRODUCTION

This user manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your FIREBAT Mini PC. This guide covers both the MN56 model (featuring AMD Ryzen 7 8745HS) and the A6 model (featuring AMD Ryzen 7 6800H). Please read this manual thoroughly before using your device to ensure proper operation and longevity.

The FIREBAT Mini PCs are designed for a wide range of applications, from home and office use to education and light gaming, offering powerful performance in a compact form factor.



Figure 1.1: FIREBAT MN56 (white) and A6 (black) Mini PCs. The MN56 model is shown with RGB lighting and a vertical stand, while the A6 model is a compact black cube.

2. SAFETY INFORMATION

To prevent injury, electric shock, fire, and damage to the device, please observe the following safety precautions:

- Use only the power adapter provided with your Mini PC.
- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid placing the device in direct sunlight or near heat sources.
- Ensure proper ventilation; do not block the ventilation openings.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.
- Handle the device with care to avoid physical damage.

3. SETUP GUIDE

3.1. Package Contents

Before proceeding, verify that all items are present in your package:

- FIREBAT Mini PC (MN56 or A6 model)
- Power Adapter
- HDMI Cable
- User Manual (this document)
- (Optional) VESA Mount Bracket and Screws

3.2. Connecting Peripherals

Follow these steps to connect your Mini PC to a display and other essential peripherals:

1. **Connect Display:** Use the provided HDMI cable or a DisplayPort (DP) cable to connect your monitor to the corresponding port on the Mini PC. Both models support triple display output via HDMI, DisplayPort, and USB-C.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB-A ports on the Mini PC.
3. **Connect Network (Optional):** For a wired internet connection, connect an Ethernet cable from your router to the LAN port(s) on the Mini PC. Both models feature 2.5Gbps LAN ports.
4. **Connect Power:** Plug the power adapter into the DC-IN port on the Mini PC, then plug the other end into a power outlet.

FASTER TRANSMISSION SPEED

Rich Upgraded Interfaces and Compatibility

Type-C interface supports
data transmission, charging, and triple display connection



Figure 3.1: Overview of ports on the FIREBAT A6 Mini PC, including Power button, 3.5mm Audio Jack, USB 3.0 Type-A, Type-C, DC-IN, HDMI, DisplayPort, and 2.5Gbps LAN ports.

AMD RYZEN 7 8745HS

8 Cores 16 Threads
L3 16MB Cache
Base Speed: 3.8GHz
Turbo Speed: 4.9GHz
Zen 4 TSMC 4nm FinFET



AMD RADEON 780M

Graphics Frequency
2600MHz



RGB Atmosphere Light





DUAL DDR5 RAM
SO-DIMM 5600MHz



WiFi 6
ROBUST AND STABLE



M.2 NVME 2280
PCIE 4.0 SSD



Bluetooth 5.2
STABLE TRANSMISSION

SUPPORT TRIPLE SCREENS DISPLAY

1*USB-C 4.0+1*HDMI 2.1+1*DP 1.4 2*USB 3.2+2*USB 2.0+1*USB-C IN
1*3.5mm Audio Jack





MU-MIMO
2*2.5G RJ45 LAN

Figure 3.2: The MN56 model also features multiple USB ports, HDMI, DisplayPort, and USB-C for display output, along with dual 2.5Gbps LAN ports.

3.3. Initial Power On

After connecting all peripherals:

1. Press the Power button located on the Mini PC. The power indicator light will illuminate.
2. The Mini PC will boot up. Follow the on-screen instructions to complete the initial Windows setup (if applicable).

4. OPERATING INSTRUCTIONS

4.1. Power Management

- **Power On:** Press the power button.
- **Shut Down:** Click the Start button in Windows, then select Power > Shut down.
- **Restart:** Click the Start button in Windows, then select Power > Restart.

- **Sleep:** Click the Start button in Windows, then select Power > Sleep.

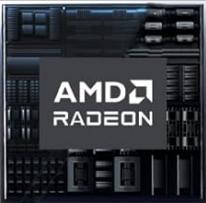
4.2. Display Configuration

Both MN56 and A6 models support triple display output, allowing you to connect up to three monitors simultaneously for enhanced productivity.

- Connect your monitors to the HDMI, DisplayPort, and USB-C video output ports.
- In Windows, right-click on the desktop and select "Display settings" to configure your multiple displays (extend, duplicate, or show only on one).



Figure 4.1: The MN56 Mini PC demonstrating support for triple screen display configurations via USB-C, HDMI, and DisplayPort.



AMD Ryzen 7 6800H

8 Cores 16 Threads

Base Speed: 3.2 GHz

Turbo Speed: 4.7GHz



AMD Radeon 680M

Graphics Frequency: 2200MHz

FIREBAT A6 6800H





Dual DDR5 RAM

SO-DIMM 4800MHz



WiFi 6



M.2 NVMe 2280

PCIe SSD



Bluetooth 5.2



MU-MIMO

2.5G RJ45 LAN

Support Triple Screens Display

6*USB 3.0+1*USB-C

1*HDMI 2.0+1*DP 1.4

1*3.5mm Audio Jack



Figure 4.2: The A6 Mini PC also supports triple screen display, offering versatile connectivity options for multiple monitors.

4.3. Network and Connectivity

- Wi-Fi:** Both models support Wi-Fi 6 for robust and stable wireless connections. To connect, click the Wi-Fi icon in the taskbar, select your network, and enter the password.
- Bluetooth:** Integrated Bluetooth 5.2 allows for stable transmission to connect wireless peripherals like keyboards, mice, and headphones. Enable Bluetooth in Windows settings to pair devices.
- Wired LAN:** Utilize the dual 2.5Gbps RJ45 LAN ports for high-speed wired network connections.

MU-MIMO Technology

Stronger network connection capability



Figure 4.3: The MN56 Mini PC highlights its MU-MIMO Technology, WiFi 6, Bluetooth 5.2, and dual 2.5Gbps RJ45 LAN ports for superior network connectivity.

4.4. Storage Expansion

Both Mini PC models come with M.2 NVMe 2280 PCIe SSDs for fast storage. If you need to expand storage, consult a qualified technician or refer to the detailed upgrade guide available on the FIREBAT website for compatible M.2 SSDs.

5. SPECIFICATIONS

5.1. FIREBAT MN56 Model (White)

Feature	Detail
Processor	AMD Ryzen 7 8745HS (8 Cores, 16 Threads, L3 16MB Cache, Base Speed: 3.8GHz, Turbo Speed: 4.9GHz, Zen 4 TSMC 4nm FinFET)

Feature	Detail
Graphics	AMD Radeon 780M (Graphics Frequency: 2600MHz, 12 graphics card cores)
RAM	32GB Dual DDR5 RAM (SO-DIMM 5000MHz)
Storage	1TB M.2 NVMe 2280 PCIe 4.0 SSD
Network	Wi-Fi 6, Bluetooth 5.2, 2 x 2.5Gbps RJ45 LAN
Video Output	Triple Screens Display (USB-C 4.0+HDMI 2.1+DP 1.4)
Ports	USB-C 4.0, HDMI 2.1, DisplayPort 1.4, USB 3.2, USB 2.0, 3.5mm Audio Jack, DC-IN, 2x 2.5Gbps LAN
Cooling	Dual Fans with High-efficiency Thermal Grease (65W stable performance release)

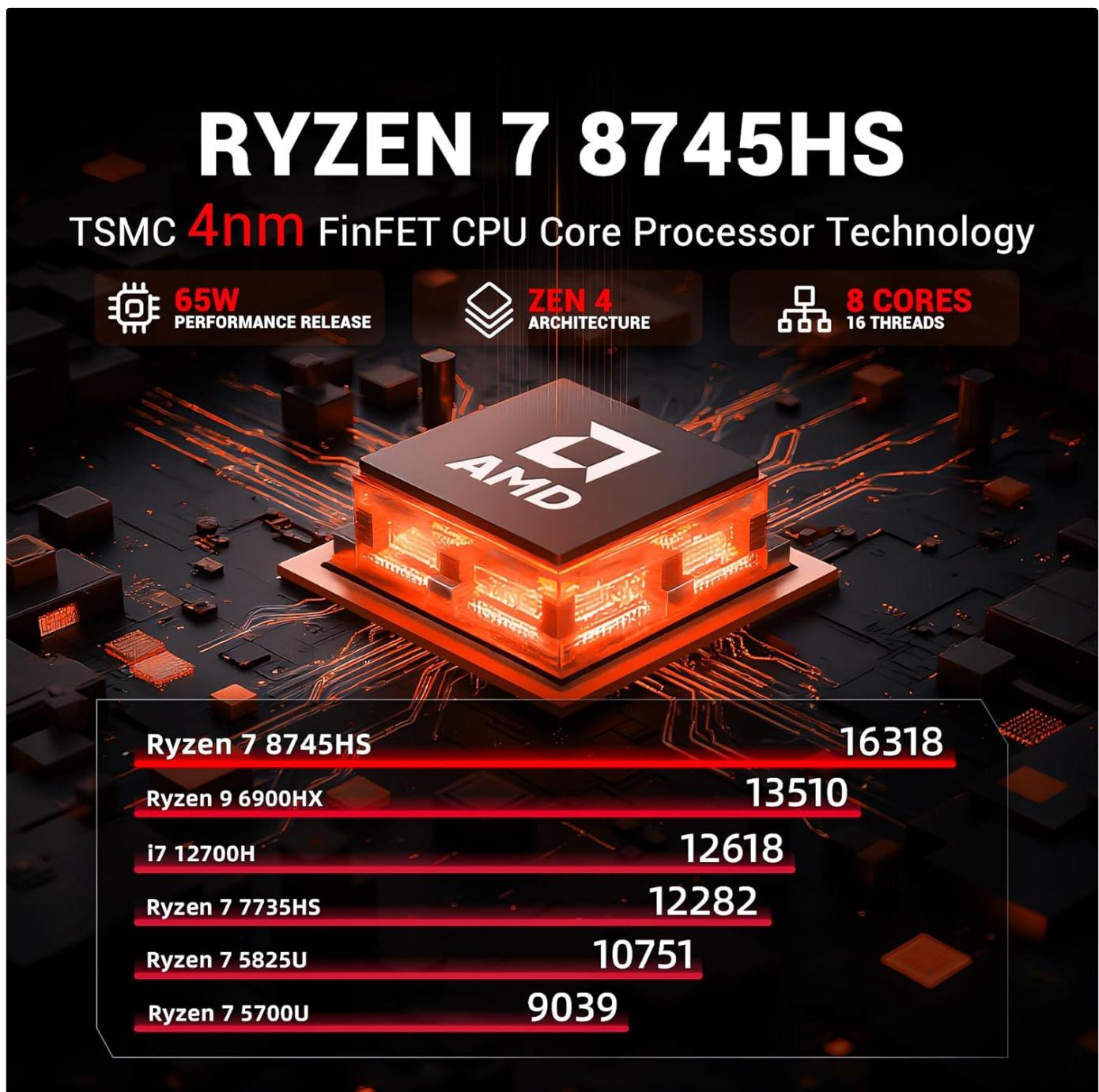
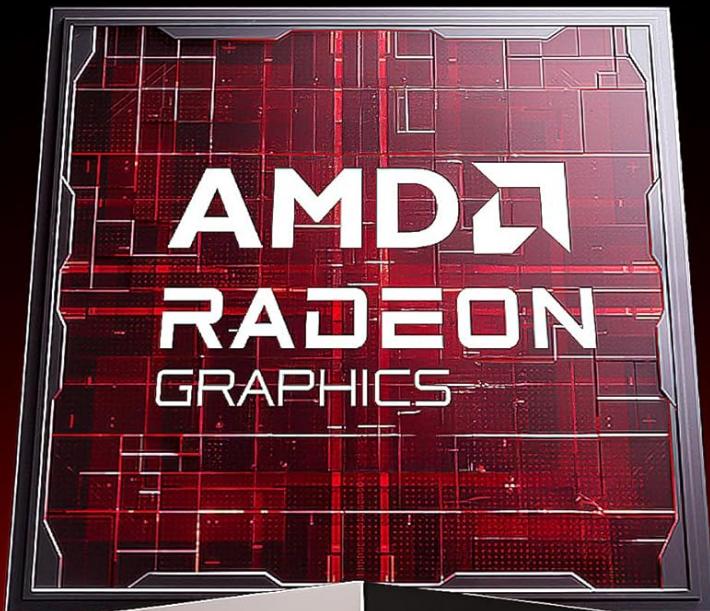


Figure 5.1: Detailed specifications of the Ryzen 7 8745HS processor in the MN56 model.

AMD Radeon 780M core graphics



12
graphics card cores



2.6GHz
graphics card frequency



TimeSpy
graphics card score can reach **2800+**



FHD resolution
Play competitive online games

Figure 5.2: Detailed specifications of the AMD Radeon 780M core graphics in the MN56 model.

Dual Fans High-efficiency Thermal Grease Vertical Stand Cooling

Taking into account performance, heat dissipation and noise at the same time



**System fan
cools the whole machine**



**CPU fan
cools the processor**



Realize the **65W stable performance release of the whole machine, achieving higher performance**

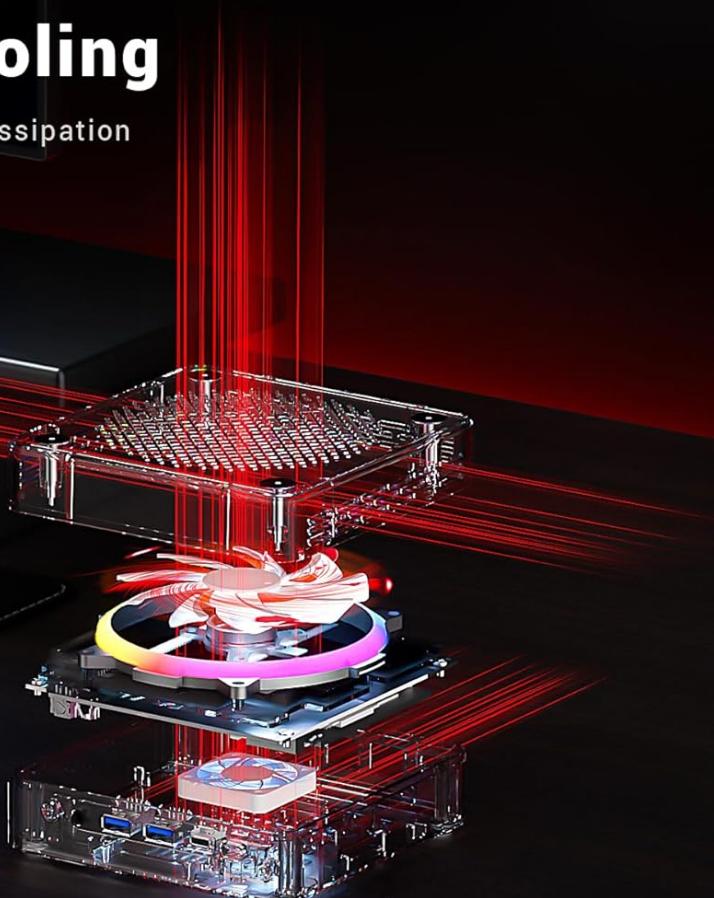


Figure 5.3: Illustration of the dual fan cooling system in the MN56 Mini PC, designed for efficient heat dissipation.

5.2. FIREBAT A6 Model (Black)

Feature	Detail
Processor	AMD Ryzen 7 6800H (8 Cores, 16 Threads, Base Speed: 3.2GHz, Turbo Speed: 4.7GHz)
Graphics	AMD Radeon 680M (Graphics Frequency: 2200MHz)
RAM	16GB Dual DDR5 RAM (SO-DIMM 4800MHz)
Storage	512GB M.2 NVMe 2280 PCIe SSD
Network	Wi-Fi 6, Bluetooth 5.2, 2.5G RJ45 LAN
Video Output	Triple Screens Display (6x USB 3.0+1x USB-C, 1x HDMI 2.0+1x DP 1.4)

Feature	Detail
Ports	Power button, 3.5mm Audio Jack, 2x USB 3.0 Type-A, Type-C, DC-IN, HDMI, DisplayPort, 4x USB 3.0 Type-A, 2x 2.5Gbps LAN



Figure 5.4: Overview of the FIREBAT A6 Mini PC's key specifications, including CPU, GPU, RAM, storage, and connectivity.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Mini PC.

- Cleaning:** Use a soft, dry cloth to wipe the exterior of the Mini PC. For dust accumulation in vents, use compressed air. Ensure the device is powered off and unplugged before cleaning.
- Software Updates:** Regularly check for and install operating system updates (e.g., Windows Updates) and driver updates for your hardware. This improves security, performance, and compatibility.
- Thermal Management:** Ensure the Mini PC is placed in a well-ventilated area. Do not obstruct the air vents. The

dual-fan cooling system is designed to maintain optimal temperatures, but proper airflow is crucial.

- **Data Backup:** Periodically back up your important data to an external drive or cloud storage to prevent data loss.

7. TROUBLESHOOTING

This section addresses common issues you might encounter and provides potential solutions.

Problem	Possible Cause	Solution
No power / Device does not turn on	Power adapter not connected, faulty power outlet, power button issue.	Ensure power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet.
No display on monitor	Incorrect cable connection, monitor input not selected, display driver issue.	Check HDMI/DP/USB-C cable connections. Ensure monitor is set to the correct input source. Try a different display cable or monitor.
Wi-Fi connection issues	Incorrect Wi-Fi password, router issue, driver issue.	Verify Wi-Fi password. Restart your router. Check Wi-Fi drivers in Device Manager.
Slow performance	Too many applications running, insufficient RAM, overheating, full storage.	Close unnecessary applications. Ensure proper ventilation. Free up disk space. Check for background processes.
Peripheral not recognized (USB, Bluetooth)	Driver issue, faulty peripheral, port issue.	Try a different USB port or re-pair Bluetooth device. Update drivers for the peripheral.

If the problem persists after trying these solutions, please contact FIREBAT customer support.

8. WARRANTY AND SUPPORT

FIREBAT is committed to providing high-quality products and excellent customer service.

- **Warranty Information:** For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official FIREBAT website. Warranty coverage typically includes defects in materials and workmanship under normal use.
- **Technical Support:** If you encounter any issues not covered in this manual or require further assistance, please contact our support team.

Contact Information:

Email: support@firebatpc.com

Website: www.firebatpc.com

When contacting support, please have your product model (MN56 or A6) and purchase information ready to expedite the process.

Related Documents - MN56, A6

	<p>FIREBAT Ryzen7 Laptop User Guide - Setup, Features, and Troubleshooting</p> <p>Comprehensive user guide for the FIREBAT Ryzen7 laptop, covering setup, power management, connectivity, troubleshooting, maintenance, and warranty information.</p>
	<p>Firebat Mini PC User Manual - Setup, Features, and Troubleshooting</p> <p>Comprehensive user manual for Firebat Mini PC models (e.g., AK2, MN56, AM02, T8). Covers package contents, setup, hardware connections, VESA mounting, BIOS settings, FAQ, and troubleshooting for optimal performance.</p>
	<p>Firebat-A8 Mini PC User Manual</p> <p>User manual for the Firebat-A8 Mini PC, providing information on service guarantee, product specifications, installation, and tips.</p>
	<p>FIREBAT T2 MINI PC Radio Test Report - BLE Compliance</p> <p>This document is a radio test report for the FIREBAT T2 MINI PC, detailing its compliance with BLE standards. Prepared by Shenzhen NTEK Testing Technology Co., Ltd.</p>
	<p>FIREBAT MINIPC FCC Test Report - Model F1 Compliance</p> <p>Official FCC test report for the FIREBAT MINIPC (Model F1), detailing compliance with FCC Part 15 Subpart C. Covers conducted emissions, radiated emissions, power spectral density, channel bandwidth, peak output power, and band edge/spurious emissions. Tested by Guangdong Zhonghan Testing Technology Co., Ltd.</p>



FIREBAT T2 MINI PC Radio Test Report

This document presents the radio test report for the FIREBAT T2 MINI PC, a computing device. It details the compliance testing conducted by Shenzhen NTEK Testing Technology Co., Ltd. against standards like MIC notice 88 Appendix 45, covering various radio performance parameters.