FIREBAT MN56

FIREBAT MN56 Mini PC User Manual

Model: MN56

1. INTRODUCTION

Thank you for choosing the FIREBAT MN56 Mini PC. This manual provides essential information for setting up, operating, and maintaining your device. Please read it thoroughly before use and keep it for future reference.

The FIREBAT MN56 is a compact and powerful mini desktop computer designed for various applications, including business, education, gaming, multimedia, and photo/video editing. It features an AMD Ryzen 7 8745HS processor, high-speed DDR5 memory, and a PCIe 4.0 SSD for exceptional performance.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x FIREBAT MN56 AMD Ryzen 7 8745HS Mini PC
- 1 x US Power Supply (19V 6.32A 120W)
- 1 x Vertical Bracket
- 1 x HDMI Cable
- 1 x User Manual (this document)

Image: The FIREBAT MN56 Mini PC shown with its power adapter, HDMI cable, and vertical stand.

3. PRODUCT OVERVIEW AND FEATURES

3.1. Specifications

Component	Detail
Model	MN56
Dimensions	13cm x 13cm x 5.4cm (5 x 5 x 2 inches)
Weight	0.53kg (1 pound)
CPU	AMD Ryzen 7 8745HS (8 Cores, 16 Threads, up to 4.9GHz)
Graphics	AMD Radeon 780M (2600MHz GPU)
Memory	32GB DDR5 5600MHz (2x16GB), expandable up to 96GB (48GBx2)
Storage	1TB PCIe 4.0 M.2 SSD, expandable up to 4TB

Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2
LAN	2 x 2.5Gbps RJ45
Video Output	1 x HDMI 2.1, 1 x DP 1.4, 1 x USB-C 4.0 (supports DP Alt Mode)
USB Ports	2 x USB 2.0 Type-A, 2 x USB 3.2 Type-A, 1 x USB-C 4.0 (PD/DP/DATA), 1 x USB-C IN
Audio	1 x 3.5mm Audio Jack
Other	RGB Control

3.2. Key Features

- **Powerful Processor:** Equipped with AMD Ryzen 7 8745HS for high performance in demanding tasks.
- **Integrated Graphics:** AMD Radeon 780M provides strong graphics performance, suitable for gaming and multimedia.
- **High-Speed Memory & Storage:** Dual-channel DDR5 5600MHz RAM and PCIe 4.0 SSD ensure fast data access and multitasking.
- **Triple Display Output:** Supports 4K triple display output via HDMI 2.1, DP 1.4, and USB-C 4.0 for enhanced productivity.
- **Dual 2.5G RJ45 Ports:** Offers high-speed network connectivity, ideal for work, gaming, and web surfing.
- **Advanced Connectivity:** Features Wi-Fi 6 and Bluetooth 5.2 for robust wireless connections.
- **Expandable Capacity:** Memory and storage are upgradeable to meet future needs.
- **Efficient Cooling:** Dual fans with high-efficiency thermal grease ensure stable performance and heat dissipation.

Image: An overview of the FIREBAT MN56's key features, highlighting its AMD Ryzen 7 8745HS processor, Radeon 780M graphics, DDR5 RAM, PCIe 4.0 SSD, Wi-Fi 6, Bluetooth 5.2, and various ports.

RYZEN 7 8745HS

TSMC 4nm FinFET CPU Core Processor Technology

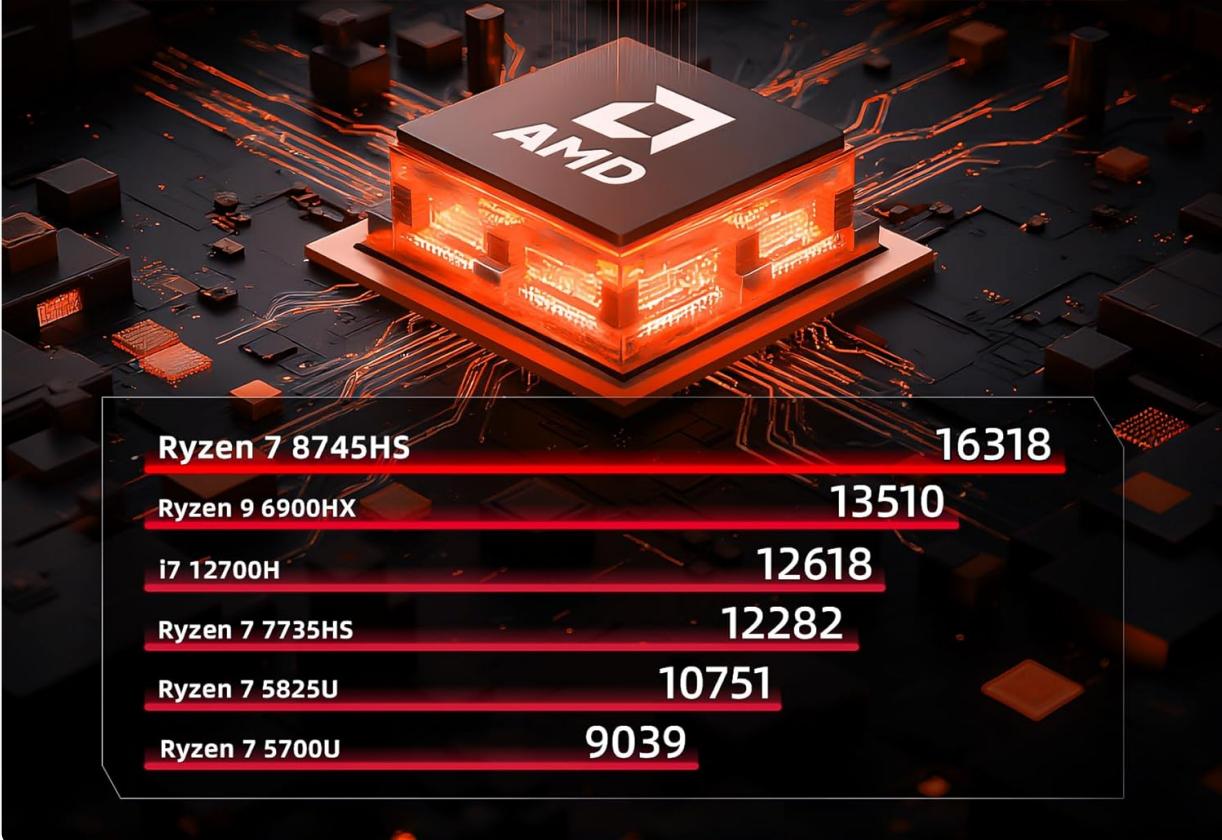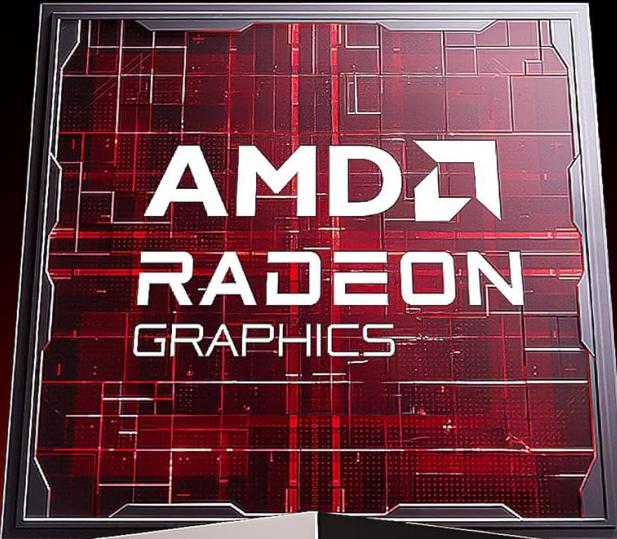**65W** PERFORMANCE RELEASE

ZEN 4 ARCHITECTURE

8 CORES 16 THREADS

Processor	Score
Ryzen 7 8745HS	16318
Ryzen 9 6900HX	13510
i7 12700H	12618
Ryzen 7 7735HS	12282
Ryzen 7 5825U	10751
Ryzen 7 5700U	9039

Image: A graphic illustrating the performance of the Ryzen 7 8745HS CPU compared to other processors.

Image: Details on the AMD Radeon 780M integrated graphics, including its 12 graphics card cores and 2.6GHz frequency.

Image: The Mini PC connected to a display, emphasizing its ultra-fast startup and smooth operation.

Image: Highlighting the MU-MIMO technology and dual 2.5Gbps RJ45 ports for stronger network connection capability.

Expandable Larger Capacity

32GB DDR5 5600MHz SO-DIMM
Dual Channel Memory Interface
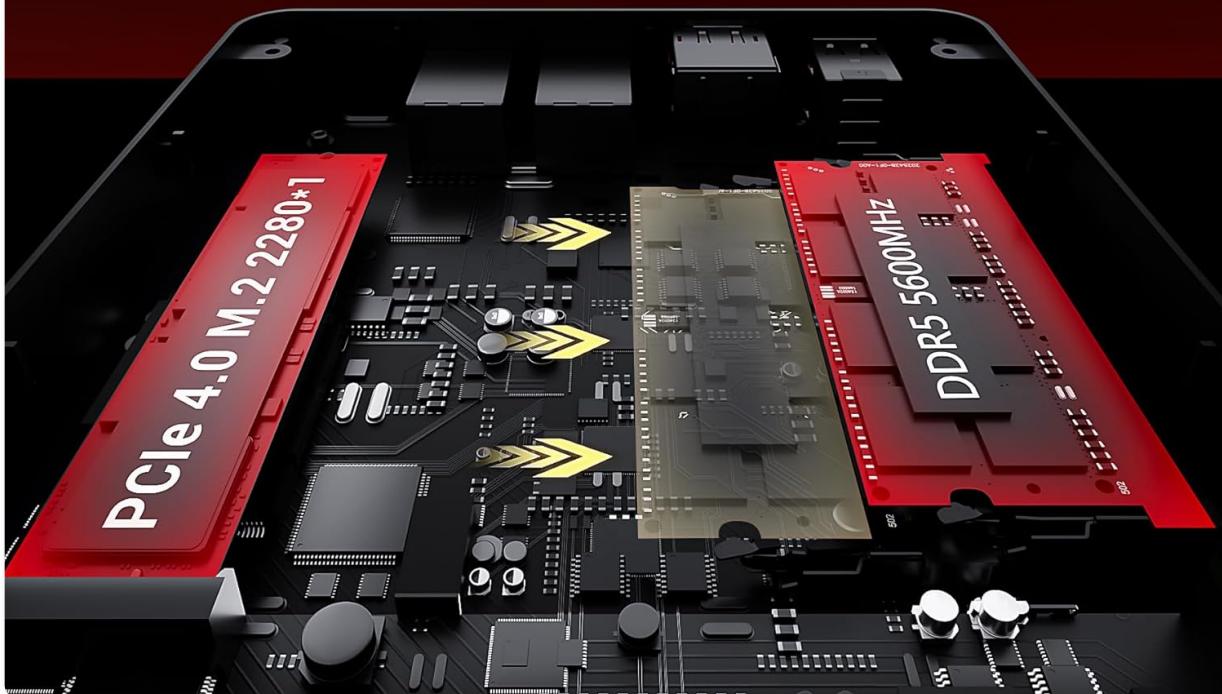(96GB Max, 48GBx2)

1TB PCIe 4.0
M.2 2280 SSD Interface

PCIe 4.0 M.2 2280*1

DDR5 5600MHz

Image: An internal diagram showing the DDR5 SO-DIMM and M.2 2280 SSD slots for expandable capacity.

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

65w

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

Image: A diagram illustrating the dual-fan cooling system and high-efficiency thermal grease for optimal heat dissipation.
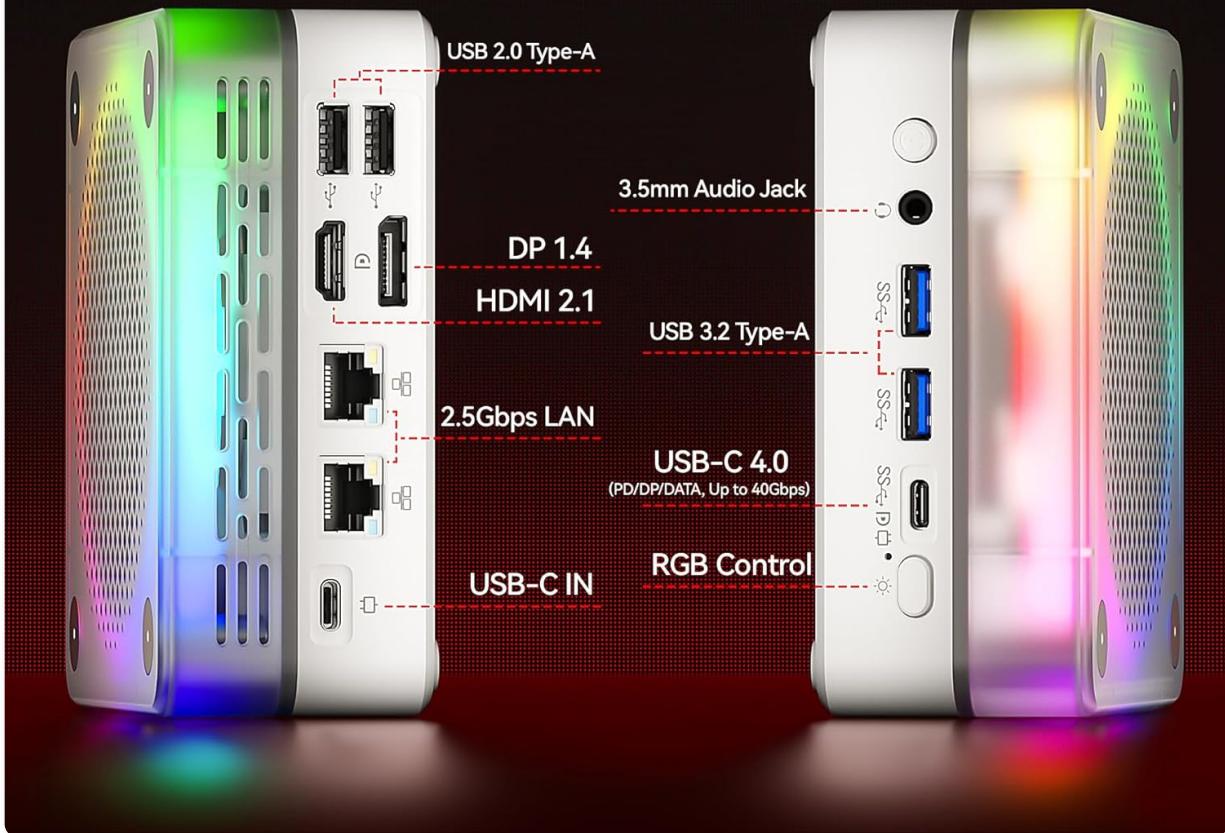
Image: A detailed view of the Mini PC's front and rear ports, including USB, HDMI, DP, LAN, and audio jacks.

4. Sᴇᴛᴜᴘ Gᴜɪᴅᴇ

4.1. Connecting to Power

1. Connect the power adapter to the "USB-C IN" port on the Mini PC.
2. Plug the power adapter into a wall outlet.

4.2. Connecting to a Display

The MN56 supports up to three displays simultaneously.

1. Connect one end of the HDMI cable (included) to the HDMI 2.1 port on the Mini PC.
2. Connect the other end of the HDMI cable to an HDMI input on your monitor or TV.
3. For additional displays, use the DP 1.4 port or the USB-C 4.0 port (with a compatible USB-C to DisplayPort/HDMI adapter, not included).

4.3. Connecting Peripherals

- **Keyboard and Mouse:** Connect your USB keyboard and mouse to any of the USB 2.0 or USB 3.2

Type-A ports.

- **Network:** For wired internet, connect an Ethernet cable from your router/modem to either of the 2.5Gbps RJ45 LAN ports. For wireless, the device supports Wi-Fi 6.
- **Audio:** Connect headphones or speakers to the 3.5mm audio jack.

4.4. First Boot

1. Ensure all necessary cables are connected.
2. Press the power button located on the front of the Mini PC.
3. Follow the on-screen instructions to complete the operating system setup.

5. OPERATING INSTRUCTIONS

5.1. Power Management

- **Power On:** Press the power button.
- **Sleep Mode:** Briefly press the power button while the PC is on, or select "Sleep" from the operating system's power options.
- **Shut Down:** Select "Shut Down" from the operating system's power options. Do not unplug the power adapter directly without proper shutdown to prevent data loss.
- **Restart:** Select "Restart" from the operating system's power options.

5.2. RGB Lighting Control

The Mini PC features customizable RGB atmosphere lighting. Use the dedicated RGB control port or software (if available) to adjust lighting effects and colors.

5.3. BIOS/UEFI Access

To access the BIOS/UEFI settings, power on the Mini PC and repeatedly press the **Del** or **F2** key (key may vary, refer to on-screen prompts during boot) immediately after pressing the power button.

6. MAINTENANCE

6.1. Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior.
- For dust accumulation in vents, use compressed air. Do not insert any objects into the vents.
- Avoid using liquid cleaners or abrasive materials.

6.2. Storage and Handling

- Store the Mini PC in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid placing heavy objects on top of the device.
- Do not expose the device to water or excessive humidity.

6.3. Upgrading Memory and Storage

The FIREBAT MN56 allows for memory and storage upgrades. For detailed instructions on how to open the chassis and install components, please refer to the official FIREBAT support website or contact customer

service. Ensure the device is powered off and unplugged before performing any internal upgrades.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Does not turn on	Power adapter not connected properly; Power outlet issue; Faulty power adapter.	Ensure power adapter is securely connected to both the PC and the wall outlet. Try a different outlet. Test with another compatible power adapter if available.
No display on monitor	Display cable loose or incorrect; Monitor input not selected; Faulty monitor/cable.	Check HDMI/DP/USB-C cable connections. Ensure the monitor is set to the correct input source. Try a different cable or monitor.
No internet connection (wired)	Ethernet cable loose; Router/modem issue; Network driver issue.	Ensure Ethernet cable is securely connected. Restart your router/modem. Check network settings in the operating system. Update network drivers.
No Wi-Fi connection	Wi-Fi disabled; Incorrect password; Router issue; Driver issue.	Ensure Wi-Fi is enabled in the operating system. Verify Wi-Fi password. Restart your router. Update Wi-Fi drivers.
System slow or unresponsive	Too many applications running; Low storage space; Overheating; Malware.	Close unnecessary applications. Free up disk space. Ensure proper ventilation. Run antivirus scans. Consider upgrading RAM/SSD if frequently slow.

If you encounter issues not listed here or if the problem persists, please contact FIREBAT customer support.

8. WARRANTY AND SUPPORT

FIREBAT products come with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official FIREBAT website for detailed warranty terms and conditions. For technical support, product inquiries, or warranty claims, please contact FIREBAT customer service:

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

Please have your product model (MN56) and purchase information ready when contacting support.