FIREBAT A6, AM02

FIREBAT Mini PC User Manual

Models: A6 (Ryzen7 6800H) & AM02 (Ryzen5 6600H)

1. INTRODUCTION

Thank you for choosing a FIREBAT Mini PC. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your new A6 or AM02 series Mini PC. Designed for versatility, FIREBAT Mini PCs are suitable for a wide range of applications, including home use, business, education, and gaming.

The FIREBAT A6 model features an AMD Ryzen7 6800H CPU, while the AM02 model is equipped with an AMD Ryzen5 6600H CPU. Both models offer robust performance and compact design.

Figure 1: FIREBAT A6 and AM02 Mini PCs. The image displays two black mini PCs from different angles, highlighting their compact size and sleek design. The top PC shows rear ports, while the bottom PC shows front ports.

2. PRODUCT MODELS OVERVIEW

2.1 FIREBAT A6 Model (Ryzen7 6800H)

The A6 model is powered by an AMD Ryzen7 6800H CPU, featuring 8 Cores and 16 Threads with a base speed of 3.2 GHz and a turbo speed of 4.7 GHz. It includes AMD Radeon 680M graphics with a frequency of 2200MHz. This model supports Dual DDR5 RAM (SO-DIMM 4800MHz) and M.2 NVMe 2280 PCIe SSD storage. Connectivity options include WiFi 6 and Bluetooth 5.2, along with 2.5G RJ45 LAN and MU-MIMO technology.

Figure 2: Key features of the FIREBAT A6 6800H model. This graphic details the CPU specifications, integrated graphics, RAM type, SSD type, and connectivity features like WiFi 6, Bluetooth 5.2, and 2.5G LAN.

The A6 model is designed for lower power consumption while delivering stronger performance, featuring a 3 Zen+ architecture (12% higher IPC performance than Zen 3) and a 6nm modern core manufacturing process, resulting in up to 17% lower power consumption.
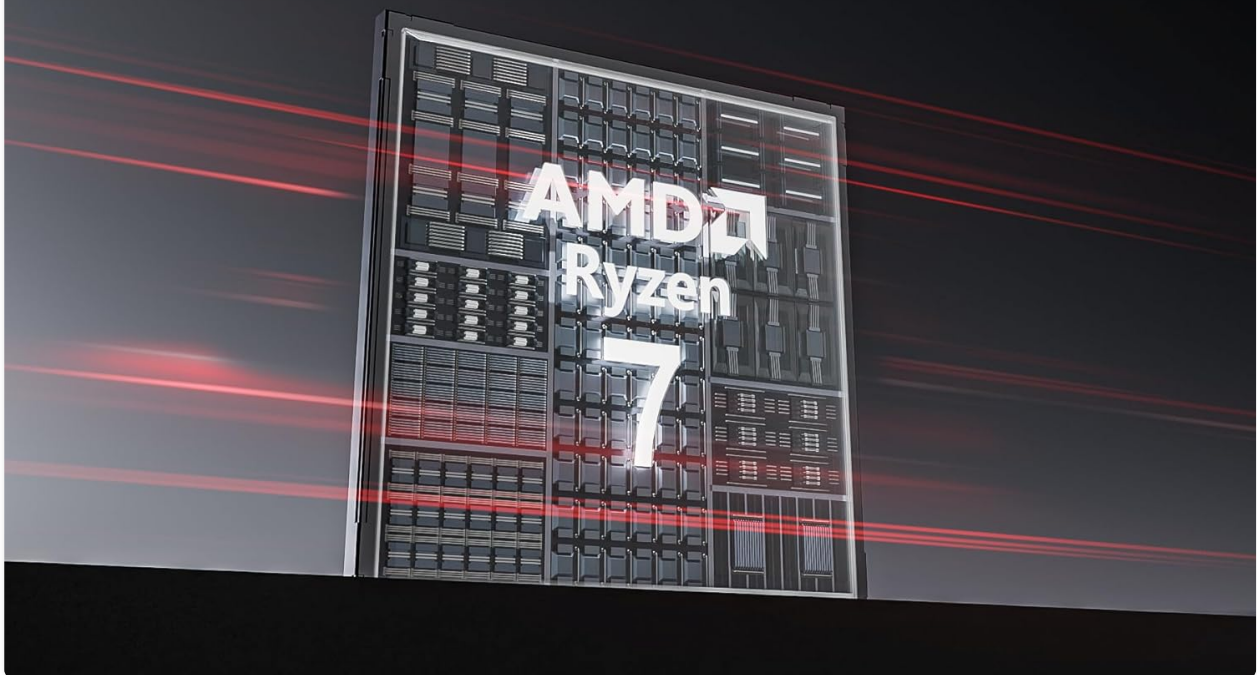
Figure 3: Performance and power efficiency of the AMD Ryzen 7 6800H. This image illustrates the improvements in IPC performance, manufacturing process, and power consumption compared to previous generations.
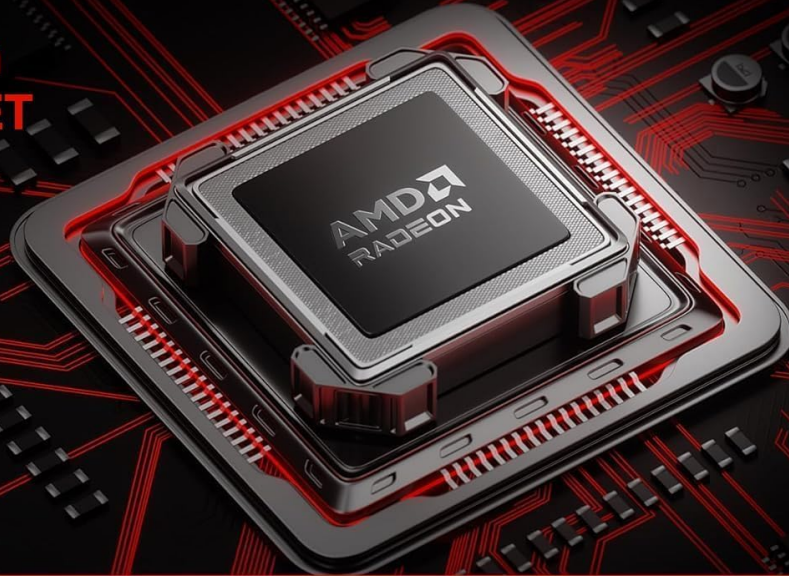
2.2 FIREBAT AM02 Model (Ryzen5 6600H)

The AM02 model is equipped with a 6 Cores/12 Threads AMD Ryzen5 6600H CPU, built on a 6nm FinFET process. This processor offers better power consumption control and multi-core performance, making it suitable for multi-threaded task processing.

Figure 4: Performance comparison of the AMD Ryzen 5 6600H CPU. This graphic shows a Cinebench R23 score comparison, indicating the AM02 model's performance relative to other CPUs.

Both models leverage AMD's advanced architecture, providing a strong balance of performance and efficiency compared to other CPU architectures, particularly in areas like multi-core performance, graphics-intensive applications, video editing, and energy saving.
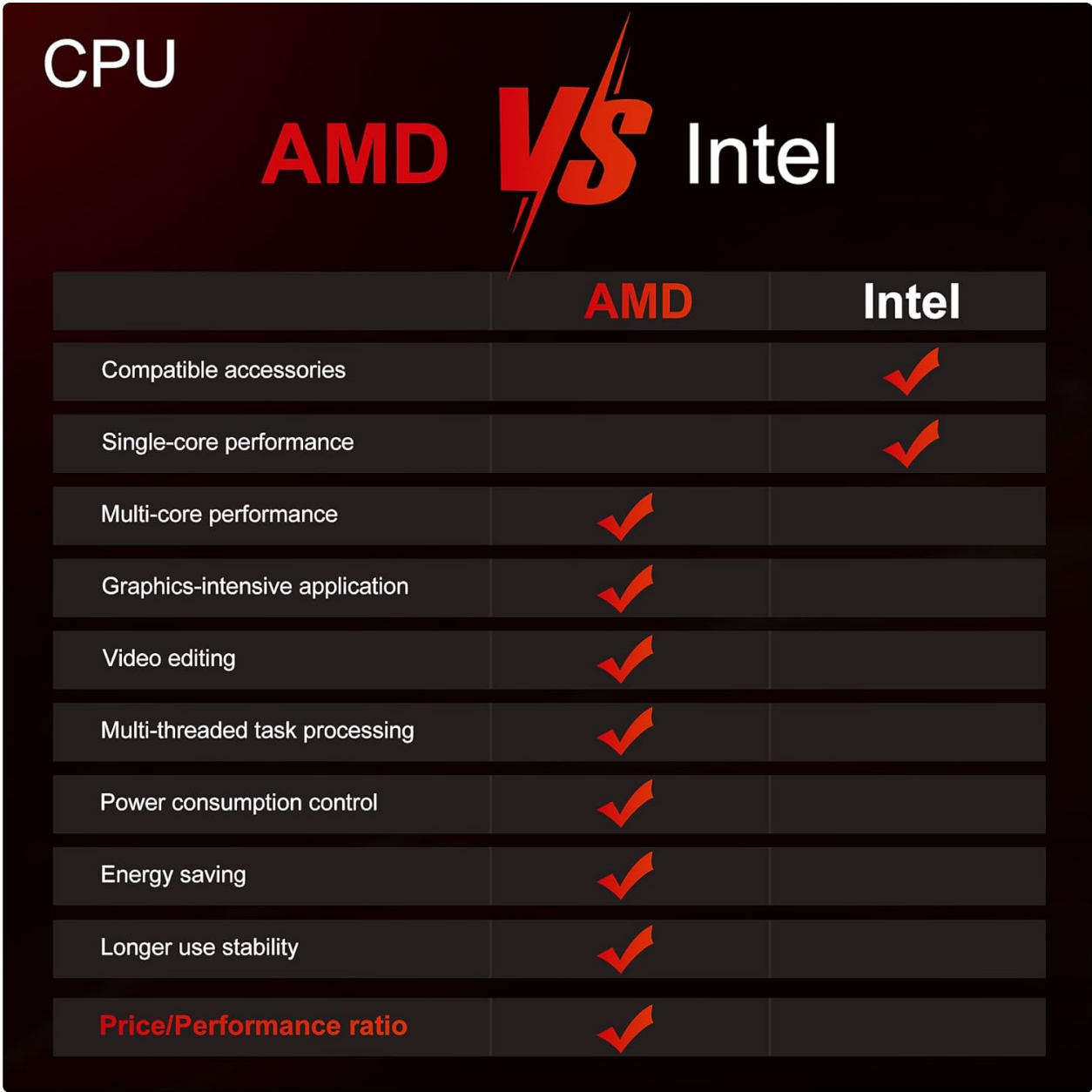
	AMD	Intel
Compatible accessories		✔
Single-core performance		✔
Multi-core performance	✔	
Graphics-intensive application	✔	
Video editing	✔	
Multi-threaded task processing	✔	
Power consumption control	✔	
Energy saving	✔	
Longer use stability	✔	
Price/Performance ratio	✔	

Figure 5: Comparison table of AMD vs. Intel CPUs. This table highlights various performance aspects where AMD excels, such as multi-core performance, graphics, video editing, and power efficiency.

3. SETUP GUIDE

3.1 Unpacking

1. Carefully open the packaging and remove the Mini PC and all accessories.
2. Verify that all components listed in the packing list are present.
3. Retain the packaging materials for future transport or storage.

3.2 Connecting Peripherals

Connect your monitor, keyboard, mouse, and other peripherals to the appropriate ports on the Mini PC. Both models feature a variety of ports for comprehensive connectivity.

Figure 6: Diagram of FIREBAT Mini PC ports. This image shows the front and rear views of the mini PC, labeling various ports including DC power, HDMI, DisplayPort (DP), 2.5Gbps LAN, USB 3.0 Type-A, USB Type-C, 3.5mm Audio Jack, and the power button.

- **Display:** Connect your monitor(s) using the HDMI or DisplayPort (DP) outputs. Both models support triple screen display.
- **USB Devices:** Plug in your keyboard, mouse, and other USB devices into the available USB 3.0 Type-A or USB Type-C ports.
- **Network:** Connect an Ethernet cable to the 2.5Gbps LAN port for wired network access.
- **Audio:** Connect headphones or speakers to the 3.5mm audio jack.

3.3 Powering On

1. Connect the power adapter to the DC-in port on the Mini PC.
2. Plug the power adapter into a wall outlet.
3. Press the power button located on the front or side of the Mini PC. The power indicator light will illuminate.
4. The system will boot up. Follow the on-screen instructions to complete the initial setup of your operating system.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

Once the operating system is set up, you can begin using your FIREBAT Mini PC like any standard desktop computer. Navigate the interface, install software, and connect to the internet.

4.2 Storage and Memory Expansion

Both A6 and AM02 models support expandable storage and memory. You can upgrade the RAM up to 64GB (32GB x 2) DDR5 4800MHz and add dual M.2 NVMe SSDs (M-Key PCIe 4.0 x 4).
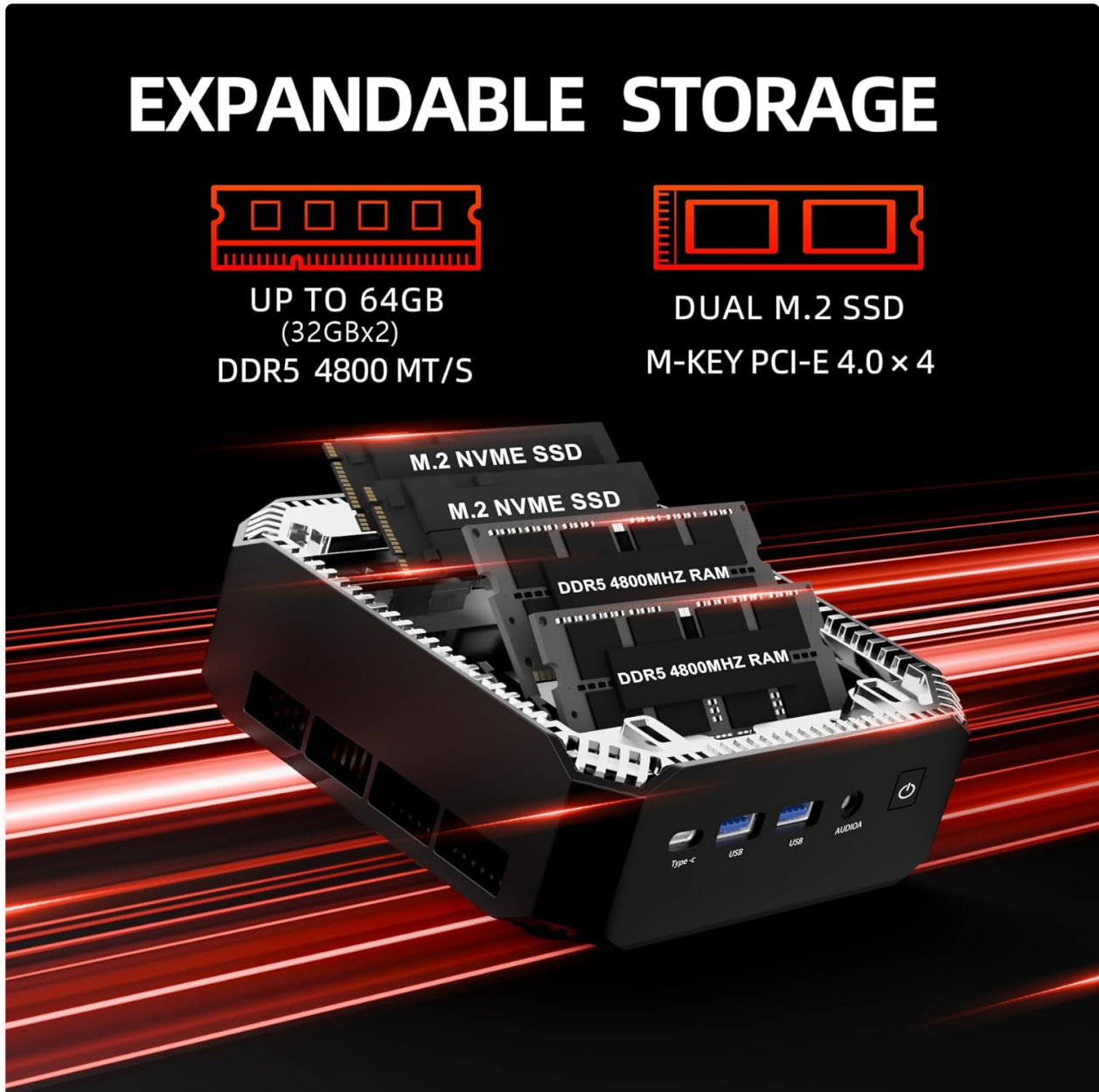

Figure 7: Diagram illustrating expandable storage options. This image shows the internal layout of the mini PC, highlighting slots for DDR5 RAM and M.2 NVMe SSDs.
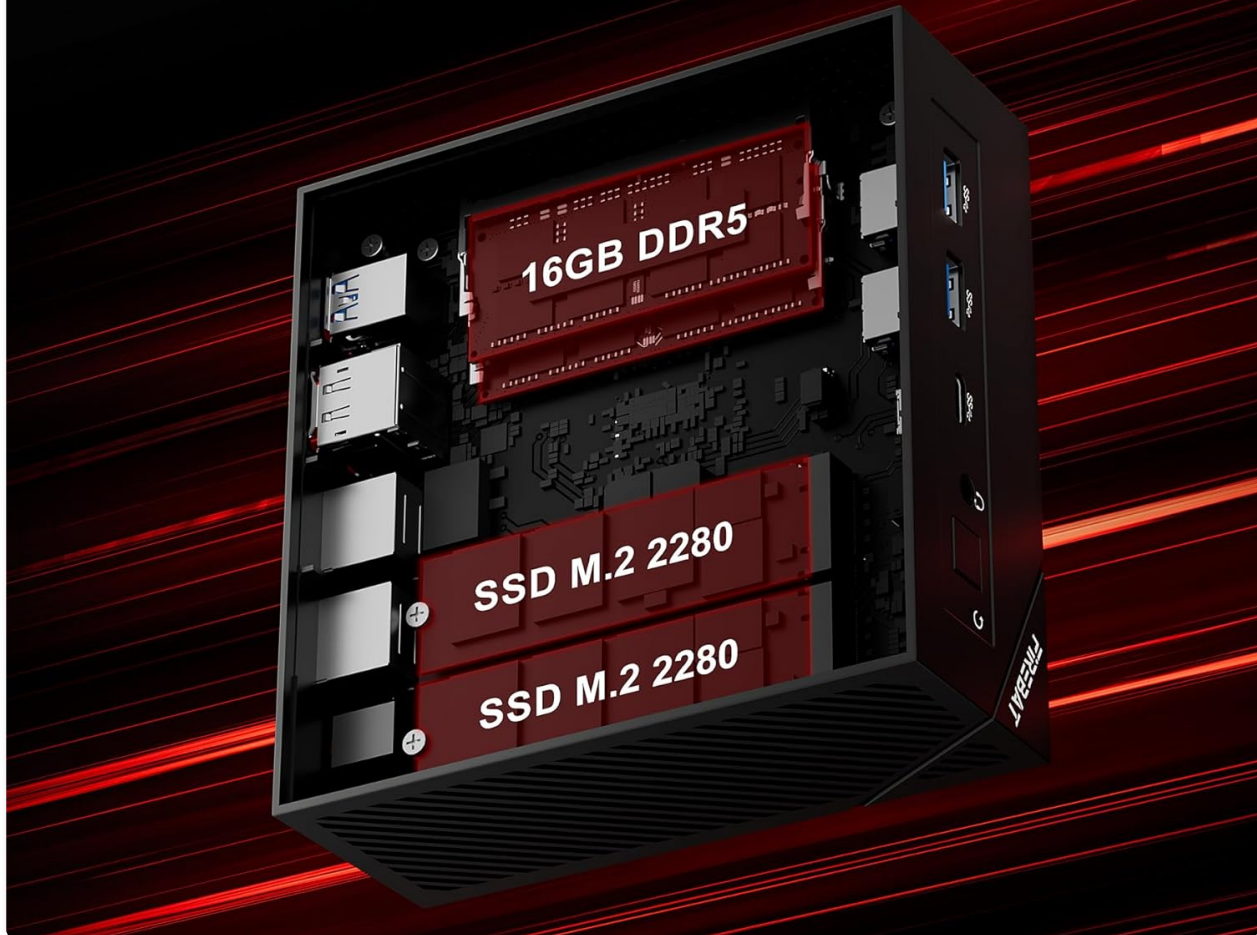
Figure 8: Internal view showing RAM and SSD slots. This image provides a clearer view of the dual channel DDR5 RAM and dual M.2 2280 SSD slots for high-performance storage expansion.

For detailed instructions on how to install or upgrade RAM and SSDs, please refer to the specific upgrade guide available on the FIREBAT official website or contact customer support.

4.3 Multi-Display Setup

Your FIREBAT Mini PC supports connecting up to three displays simultaneously via the HDMI and DisplayPort (DP) outputs, along with the USB-C port (if it supports video output). This allows for an extended desktop experience, ideal for multitasking or professional setups.

- Connect your primary monitor to the HDMI port.
- Connect a second monitor to the DisplayPort.
- If your USB-C port supports video output, connect a third monitor using a compatible USB-C to display adapter.
- Once connected, configure display settings within your operating system to extend or duplicate your desktop.

5. MAINTENANCE

5.1 Cleaning

To ensure optimal performance and longevity, regularly clean your Mini PC. Use a soft, dry cloth to wipe down the exterior. For dust accumulation in vents, use compressed air. Ensure the device is powered off and unplugged before cleaning.

5.2 Cooling System

The FIREBAT Mini PC features a fan with a rear air outlet design and multiple smart cooling solutions to maintain optimal operating temperatures and low noise levels. Ensure that the air vents are not obstructed to allow for proper airflow.

Figure 9: Illustration of the FIREBAT Mini PC's cooling system. This image shows the internal fan and rear air outlet design, emphasizing its role in increasing operating speed and creating a quiet environment.

6. TROUBLESHOOTING

If you encounter issues with your FIREBAT Mini PC, please 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. Try a different outlet.

- **No Display:** Check that the monitor cable (HDMI/DP) is firmly connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **No Internet Connection:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure Wi-Fi is enabled in the operating system and you are connected to the correct network with the correct password.
- **System Slowdown:** Close unnecessary applications. Check for background processes consuming high resources. Ensure adequate ventilation and clean dust from vents.
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure drivers are installed if required by the peripheral.

For more complex issues or if the problem persists, please contact FIREBAT customer support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	FIREBAT
Model (A6)	AMD Ryzen7 6800H CPU (8 Cores, 16 Threads, 3.2GHz Base, 4.7GHz Turbo)
Model (AM02)	AMD Ryzen5 6600H CPU (6 Cores, 12 Threads, 4.5GHz Turbo)
Graphics	AMD Radeon 680M (2200MHz)
RAM	16GB DDR5 4800MHz (Expandable up to 64GB)
Storage	512GB M.2 NVMe 2280 PCIe 4.0 SSD (Dual M.2 SSD support)
Connectivity	WiFi 6, Bluetooth 5.2, 2.5Gbps RJ45 LAN
Ports (Front)	USB Type-C, USB 3.0 Type-A (x2), 3.5mm Audio Jack, Power Button
Ports (Rear)	DC Power, HDMI, DisplayPort (DP), 2.5Gbps LAN, USB 3.0 Type-A (x4)
ASIN	B0F74VT4RN
Date First Available	May 1, 2025

8. WARRANTY AND SUPPORT

FIREBAT is committed to providing high-quality products and excellent customer service. Your Mini PC comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions.

For any technical assistance, product inquiries, or support needs, please contact FIREBAT customer support:

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

Our team is dedicated to ensuring your satisfaction and will assist you with any questions or concerns you may have.

Documents - FIREBAT – A6, AM02

[FIREBAT AK2 Mini Desktop PC User Guide](#)
Comprehensive user guide for the FIREBAT AK2 Mini Desktop PC, covering specifications, installation, setup, troubleshooting, and maintenance.
lang:en score:31 filesize: 737.45 K page_count: 18 document date: 2025-01-08

[pdf] Specifications Test Report

Measurement Report Kent Test report BLE Shenzhen Qingfen Tingxiu Information Technology Co Ltd AM02 MINIPC 2BB7B 2BB7BAM02 am02
Project No.: ZHT-240122034E Page 1 of 60 FCC TEST REPORT FCC ID:2BB7B **AM02** Report Number............ ... , T8PRO, T8PLUS, T8MATE, T8NOTE, T8MIX, AK2PRO, AK2PLUS, AK7, AK7PRO, CK11, TK11, JK01, JK06, AMR5, **A6**, A8, MN55, MN56, MN57, MN66, MN77, MN78 MN84, SU5, SU6, SU7, SU8, MN88, AK8, AK8PRO, AK8PLUS, S1,...
lang:en score:21 filesize: 2.8 M page_count: 60 document date: 2024-02-28

[pdf] Specifications Test Report

Measurement Report Kent Test report part 1 Shenzhen Qingfen Tingxiu Information Technology Co Ltd AM02 MINIPC 2BB7B 2BB7BAM02 am02
Project No.: ZHT-240122034E-2 Page 1 of 42 FCC TEST REPORT FCC ID:2BB7B **AM02** Report Number....... ... , T8PRO, T8PLUS, T8MATE, T8NOTE, T8MIX, AK2PRO, AK2PLUS, AK7, AK7PRO, CK11, TK11, JK01, JK06, AMR5, **A6**, A8, MN55, MN56, MN57, MN66, MN77, MN78 MN84, SU5, SU6, SU7, SU8, MN88, AK8, AK8PRO, AK8PLUS, S1,...
lang:en score:19 filesize: 1.07 M page_count: 42 document date: 2024-02-26

[pdf] Test Report

Measurement Report Kent Test report WiFi part 1 Shenzhen Qingfen Tingxiu Information Technology Co Ltd AM02 MINIPC 2BB7B 2BB7BAM02 am02

Project No.: ZHT-240122034E-1 Page 1 of 127 FCC TEST REPORT FCC ID:2BB7B **AM02** Report Number. .... :**AM02**, T8PRO,T8PLUS,T8MATE,T8NOTE,T8MIX, AK2PRO,AK2PLUS,AK7,AK7PRO,CK11,TK11, JK01, JK06,AMR5,**A6**,A8,MN55, MN56,MN57,MN66,MN77,MN78 MN84,SU5,SU6,SU7,SU8, MN88,AK8,AK8PRO,AK8PLUS, S1,F1A,F1K,M1A,M...

lang:en score:18 filesize: 3.61 M page_count: 78 document date: 2024-03-07

[FIREBAT T2 MINI PC Radio Test Report - BLE Compliance](#)

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.

lang:en score:10 filesize: 1.89 M page_count: 46 document date: 0000-00-00

[pdf] Test Report

RADIO TEST REPORT Mar 24 2025 · Trade Mark FIREBAT Model Name T2 Family Model T3 T5P T8 PLUS AM02 MN56 A5P R1 R2 R3 and or type reference 210 250232 02 001 tele soumu go jp giteki SearchServlet2 PageID jt01 ATF 185557001 |||

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lang:en score:10 filesize: 1010.01 K page_count: 33 document date: 0000-00-00