

Manuals.plus /

- › BMAX /
- › BMAX Mini PC B8A Pro User Manual - AMD Ryzen 7 8745HS

BMAX B8A Pro

BMAX Mini PC B8A Pro User Manual

Model: B8A Pro

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BMAX Mini PC B8A Pro. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Processor:** AMD Ryzen 7 8745HS (up to 4.9 GHz)
- **Graphics:** Integrated AMD Radeon 780M GPU
- **Memory:** 16GB DDR5 RAM (expandable up to 256GB)
- **Storage:** 512GB NVMe PCIe 4.0 x4 SSD (expandable up to 4TB)
- **Display Support:** Triple display output (DP 2.1, HDMI 2.1, Type-C) with up to 8K resolution support
- **Connectivity:** Wi-Fi 6, Bluetooth 5.2, 2.5Gbps LAN
- **Operating System:** Pre-installed Windows 11 Pro
- **Cooling System:** "Space Station" cooling with smart turbo fan and dual copper heat pipes

2.2 Product Components and Ports

The BMAX Mini PC B8A Pro is designed for efficient performance in a compact form factor. Below are illustrations of its key components and available ports.



Figure 1: Front view of the BMAX Mini PC B8A Pro.

Porte **Abbondanti**

Soddisfa varie esigenze di espansione



Figure 2: Front and rear ports of the BMAX Mini PC B8A Pro.

- **Front Ports:** Clear CMOS port, 3.5mm Headset Jack, Type-C port (full-featured), 2x USB 3.0 ports, Power Button.
- **Rear Ports:** 2.5G LAN port, 2x USB 2.0 ports, HDMI 2.1 port, DP 2.1 port, Power In port (DC 19V/6.32A).

2.3 Unboxing and Included Accessories

The BMAX Mini PC B8A Pro comes with essential accessories to get you started. The unboxing video below demonstrates the contents of the package.

Your browser does not support the video tag.

Video 1: Unboxing the BMAX Mini PC B8A Pro, showing the mini PC, power adapter, HDMI cable, VESA mount, and screws.

The package typically includes:

- BMAX Mini PC B8A Pro unit
- Power Adapter
- HDMI Cable
- Metal Bracket (for VESA mounting)
- Screws for mounting
- User Manual / Warranty Card

3. SETUP GUIDE

3.1 Initial Connection

1. Connect your monitor(s) to the Mini PC using the HDMI, DP, or Type-C ports.
2. Connect your keyboard and mouse to the available USB ports.
3. Plug the power adapter into the DC In port on the Mini PC, then connect it to a power outlet.

3.2 Powering On and Initial Windows Setup

Press the Power Button on the front of the Mini PC to turn it on. The device comes with Windows 11 Pro pre-installed. For the first boot, Windows will guide you through the initial setup process. It is recommended to connect to an Ethernet cable or Wi-Fi during this process to ensure faster updates and setup completion.

Important Reminder:

- When turning on the computer for the first time, do not connect it to Ethernet or Wi-Fi. This can avoid some settings to make the computer enter Windows faster.
- The update of Windows will take some time; please wait patiently for the process to be completed. Do not cut off the power during the process to prevent damage to your files.

3.3 Network Connection

- **Wired Connection:** Connect an Ethernet cable to the 2.5Gbps LAN port on the rear of the Mini PC.
- **Wireless Connection:** The Mini PC supports Wi-Fi 6. During Windows setup or via Windows settings, connect to your preferred Wi-Fi network.

3.4 Triple Display Setup

The BMAX Mini PC B8A Pro supports connecting up to three displays simultaneously using its DP 2.1, HDMI 2.1, and full-featured Type-C ports. This allows for extended desktop environments for enhanced productivity or immersive entertainment.

Visualizzazione Tripla



DP2.1
(8K@60Hz)



Type-C
(4K@60Hz)



HDMI 2.1
(4K@60Hz)



Figure 3: Example of a triple display setup with the BMAX Mini PC B8A Pro.

Your browser does not support the video tag.


Video 2: Demonstrates the BMAX Mini PC B8A Pro's features, including its triple display capability.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

Once the initial setup is complete, your BMAX Mini PC B8A Pro is ready for use. Navigate Windows 11 Pro as you

would on any desktop computer. The powerful AMD Ryzen 7 8745HS processor and Radeon 780M GPU provide excellent performance for various tasks.



AMD Ryzen 7 8745HS

8/16
Core / Thread

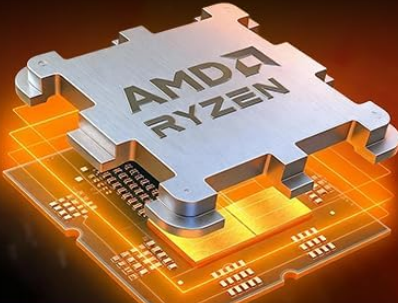
16MB
Cache L3

4.9GHz
Frequenza Turbo

45W
Consumo Energetico

AMD Radeon 780M 12CU


Frequenza GPU fino a 2600MHz




WiFi 6 **Bluetooth 5.2**

Triple Display


DP2.1 (8K@60Hz) **Type-C** (4K@60Hz) **HDMI 2.1** (4K@60Hz)




Ventola di Raffreddamento Intelligente



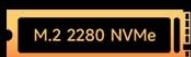
Doppie Heat Pipe in Rame



TDP 45W



16GB DDR5 4800MHz
Espandibile fino a 256 GB



512GB M.2 2280 NVMe PCIe4.0x4 SSD
2 Slot M.2 2280
Supporto SSD M.2 NVMe PCIe3.0/4.0
Capacità Massima 4TB

Figure 4: Key features of the AMD Ryzen 7 8745HS processor.

AMD Radeon 780M

Supporta DirectX 12 Ultimate per un'esperienza di gioco fluida e grafica dettagliata.

12
Nuclei GPU

2600MHz
Frequenza grafica

Benchmark 3DMark Time Spy

AMD Radeon 780M

2778

↑ 117%

AMD Radeon Graphics

1280

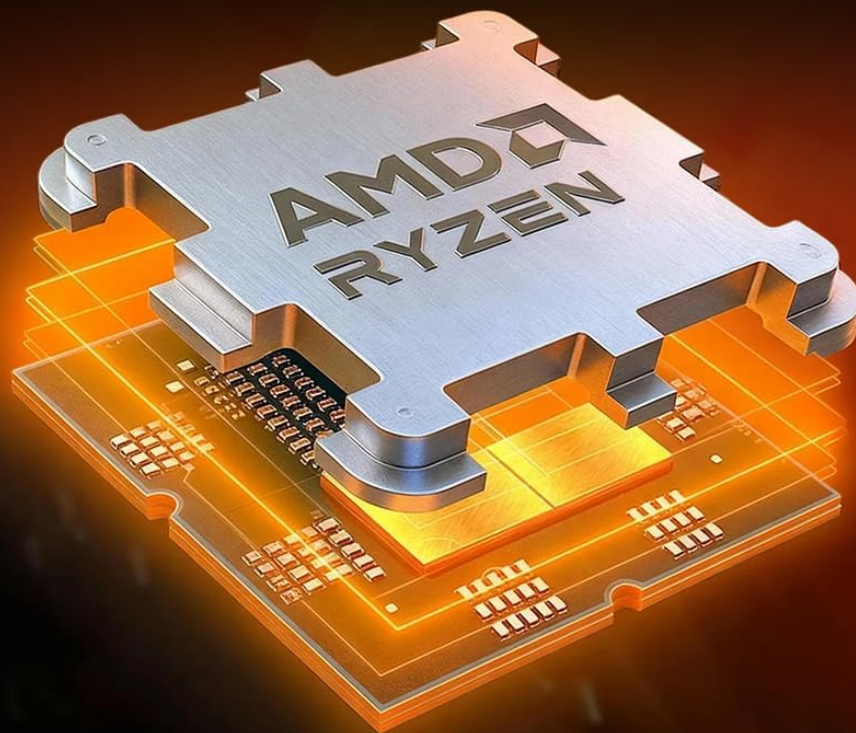


Figure 5: Key features of the AMD Radeon 780M GPU.

4.2 Usage Scenarios

The BMAX Mini PC B8A Pro is versatile and suitable for:

- **Gaming:** Enjoy casual gaming with the integrated Radeon 780M GPU.
- **Work & Productivity:** Ideal for intensive work, office applications, and creative tasks.
- **Multimedia & Home Theater:** Supports 4K video playback and can serve as a home media center.
- **Education & Design:** Capable of handling educational software and design applications.



Figure 6: Various applications of the BMAX Mini PC B8A Pro, including design, education, gaming, business, and home theater.

5. MAINTENANCE

5.1 Cooling System

The Mini PC features an efficient "Space Station" cooling system with a smart turbo fan and dual copper heat pipes to dissipate heat effectively, ensuring sustained performance without overheating.

5.2 Storage and Memory Expansion

The B8A Pro is equipped with a 512GB NVMe PCIe 4.0 x4 SSD and 16GB DDR5 RAM. Both are expandable for increased performance and storage capacity.



Figure 7: Details on DDR5 memory and NVMe SSD, showing expansion slots.

Your browser does not support the video tag.

Video 3: Demonstrates how to access the internal components for SSD and RAM upgrades.

To expand storage or memory:

1. Power off the Mini PC and disconnect all cables.

2. Unscrew the four screws on the bottom cover.
3. Carefully lift the bottom cover.
4. Locate the SSD slot and DDR5 memory slots.
5. Install your new SSD or RAM modules according to their respective installation guides.
6. Reattach the bottom cover and secure it with the screws.

5.3 General Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure the cooling vents are free from dust and debris to maintain optimal airflow and prevent overheating.

6. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- **No Display:** Check all display cable connections (HDMI, DP, Type-C) to your monitor(s) and ensure the monitor is set to the correct input source.
- **Network Issues:** For wired connections, check the Ethernet cable. For Wi-Fi, ensure the Wi-Fi adapter is enabled and connected to the correct network.
- **Windows Damaged/Recovery:** If Windows is damaged, press the **F9** key during startup to enter the BMAX Smart Recovery environment to reset Windows. This can help resolve software issues without losing your files.

7. SPECIFICATIONS

Feature	Specification
Brand	BMAX
Operating System	Windows 11 Pro
CPU Model	Ryzen 7 8745HS
CPU Speed	4.9 GHz
Cache Size	16 MB
Graphics Coprocessor	AMD Radeon 780M
Graphics Description	Integrated
Memory Capacity	16 GB DDR5
Storage Capacity	512 GB NVMe SSD
Specific Product Uses	Photo Editing, Gaming, Work
PC Design Type	Mini PC

8. WARRANTY AND SUPPORT

Your BMAX Mini PC B8A Pro comes with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official BMAX website. For technical support,

troubleshooting assistance, or service inquiries, please contact BMAX customer support through their official channels.