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Bmax B4 turbo

Bmax Mini PC B4 Turbo User Manual

Model: B4 Turbo | Brand: Bmax

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Bmax Mini PC B4 Turbo. Please read this manual thoroughly before using the device to ensure proper function and longevity.



2. PACKAGE CONTENTS

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

- Bmax Mini PC B4 Turbo
- Metal Bracket (for VESA mounting)
- User Manual (this document)
- HDMI Cable
- Power Adapter



Image 2.1: The package includes the N150 mini PC, metal bracket, user manual, HDMI cable, and power adapter.

3. SETUP GUIDE

3.1 Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. The device supports up to three displays via two HDMI 2.1 ports and one full-featured USB Type-C port.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB 3.0 or USB 2.0 ports.
3. **Connect Network:** For a wired connection, plug an Ethernet cable into the RJ45 port. For wireless, the device supports Wi-Fi.
4. **Connect Power:** Plug the power adapter into the DC12V/2A port on the Mini PC, then connect it to a power outlet.

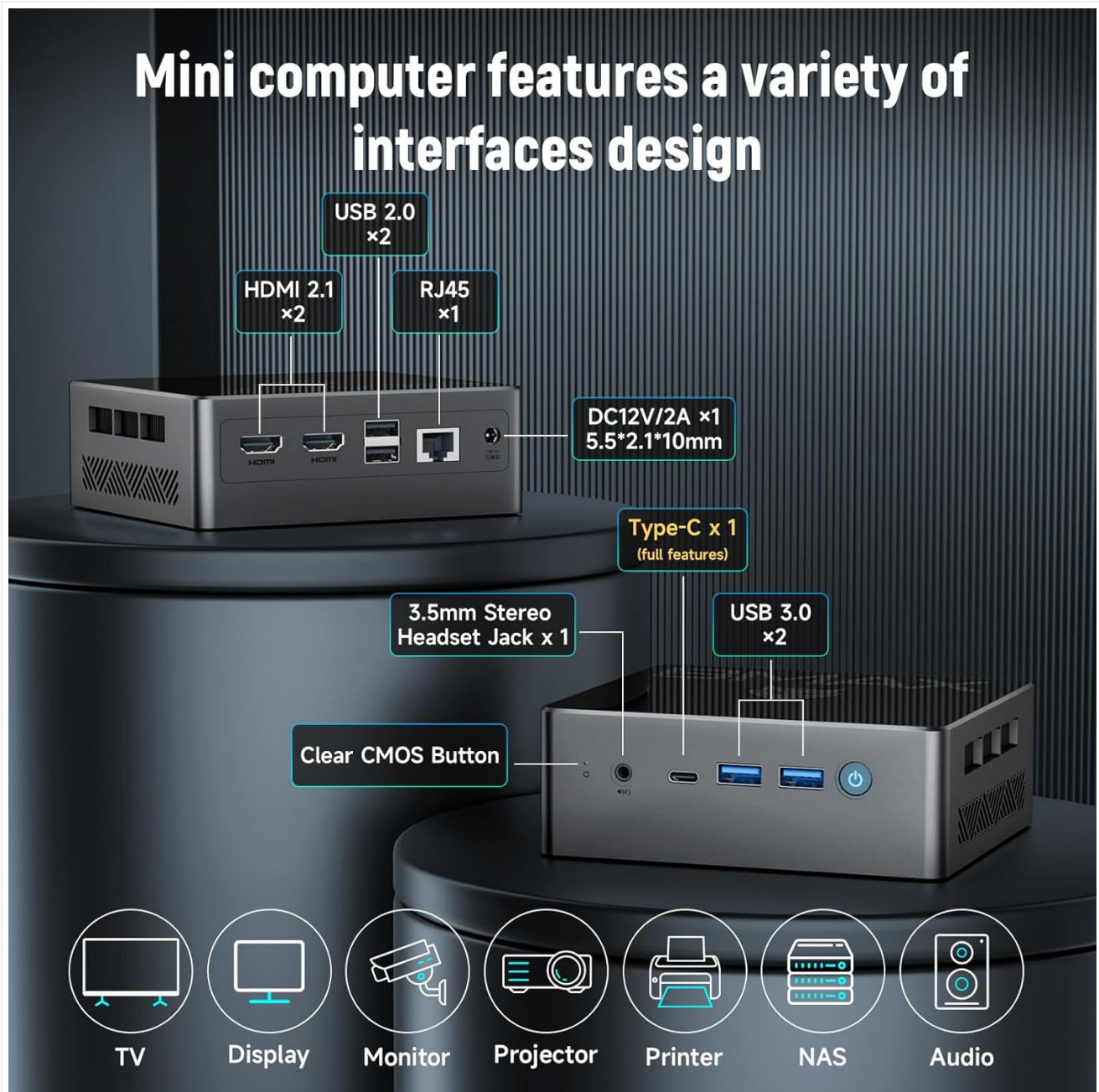


Image 3.1: Detailed diagram showing all available interfaces: USB 2.0, HDMI 2.1, RJ45, DC12V/2A power, USB Type-C, 3.5mm Stereo Headset Jack, USB 3.0, and Clear CMOS Button.

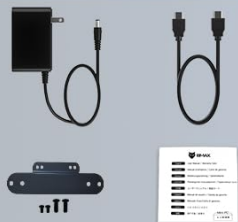
3.2 VESA Mount Installation

The Bmax Mini PC can be mounted to the back of a monitor or TV using the included VESA bracket to save desk space.

1. Attach the metal bracket to the VESA mounting holes on the back of your monitor using the provided screws.
2. Slide the Mini PC onto the bracket until it clicks securely into place.

New Bracket Design, Easy to Install

Power Adapter x1
HDMI Cable x1
Bracket x1
User Guide x1



Mount it behind a monitor or TV with VESA installation and turn it into a BMAX all-in-one desktop computer.



Image 3.2: The Mini PC is shown mounted on the rear of a display, demonstrating the VESA bracket installation.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Power On:** Press the power button located on the front of the Mini PC. The power indicator light will illuminate.
- **Power Off:** To safely shut down the system, go to the Windows Start Menu, select 'Power', and then 'Shut down'. Alternatively, you can press and hold the power button for a few seconds.

4.2 Display Configuration

The Mini PC supports connecting up to three displays simultaneously for extended desktop or mirrored display modes.

- Connect displays using the two HDMI 2.1 ports and the full-featured USB Type-C port.
- Adjust display settings (resolution, orientation, multiple display modes) through the Windows Display Settings.

HDMI*2 & Type-C

Support Three Screen Display

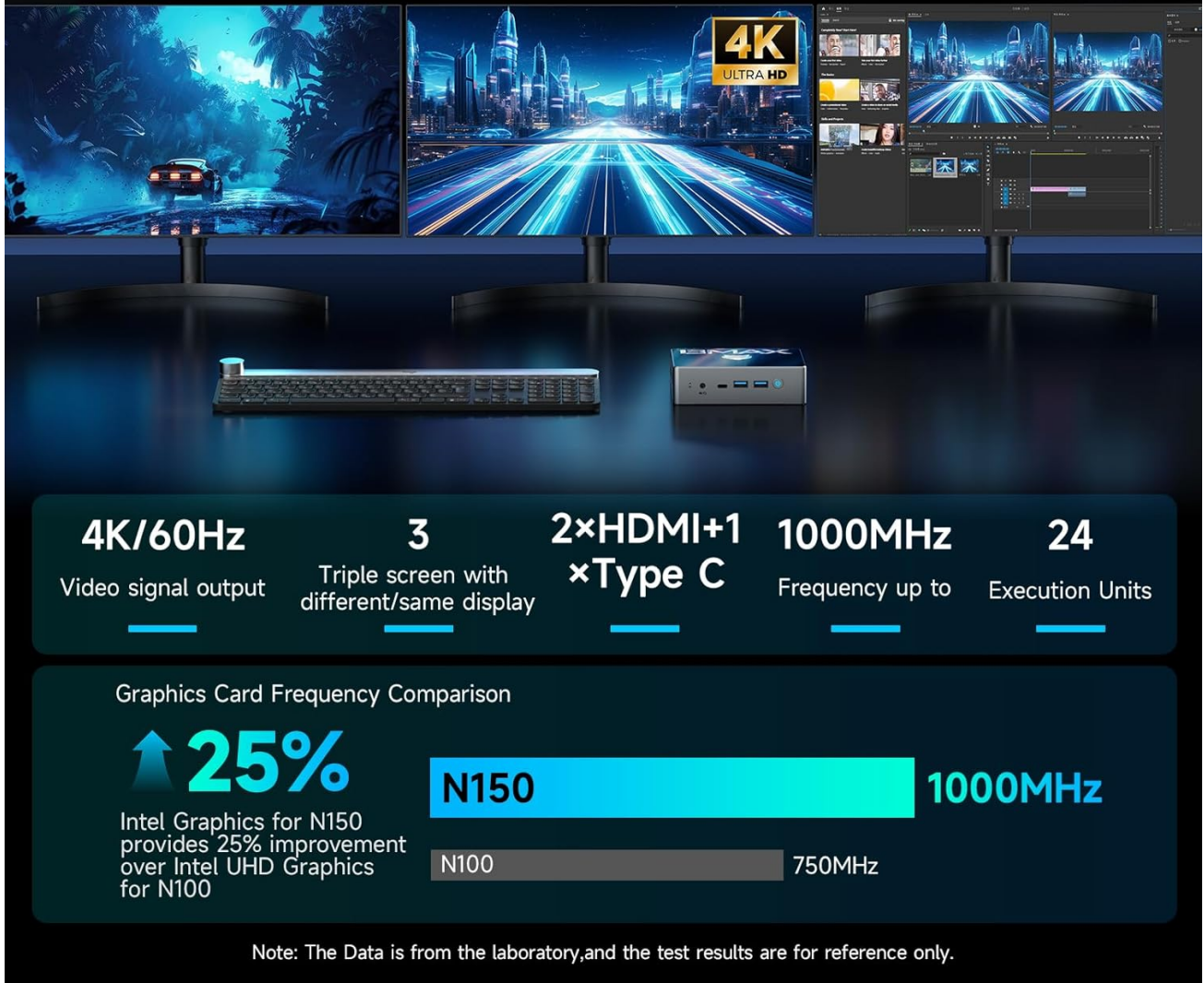


Image 4.1: The Mini PC is shown connected to three monitors, demonstrating its triple screen display capability via HDMI and Type-C ports.

4.3 USB Type-C Port Functionality

The front USB Type-C port is full-featured, supporting multiple functions:

- **Charging:** Can charge compatible smartphones and laptops.
- **Data Transfer:** Provides high-speed data transfer, significantly faster than traditional USB ports.
- **Video Output:** Supports video output to an external display.



Image 4.2: The Type-C interface is illustrated with icons representing its capabilities: charging, data transfer, and video output.

5. MAINTENANCE AND UPGRADES

5.1 Upgrading RAM and Storage

The Bmax Mini PC B4 Turbo allows for user upgrades of RAM and storage. To access the internal components:

1. Ensure the device is powered off and disconnected from all power sources.
2. Carefully remove the four screws on the bottom plate of the Mini PC.
3. Gently lift the bottom plate to reveal the SODIMM RAM slot, the M.2 SSD, and the connector/mount for a 2.5-inch SATA drive.
4. Install or replace components as needed. The device supports 16GB DDR4 RAM and a 512GB M.2 SSD, with an option to add a 2.5-inch SATA drive.
5. Reattach the bottom plate and secure it with the screws.

Efficient Memory and Storage



16GB DDR4
Memory



512GB SSD
Storage

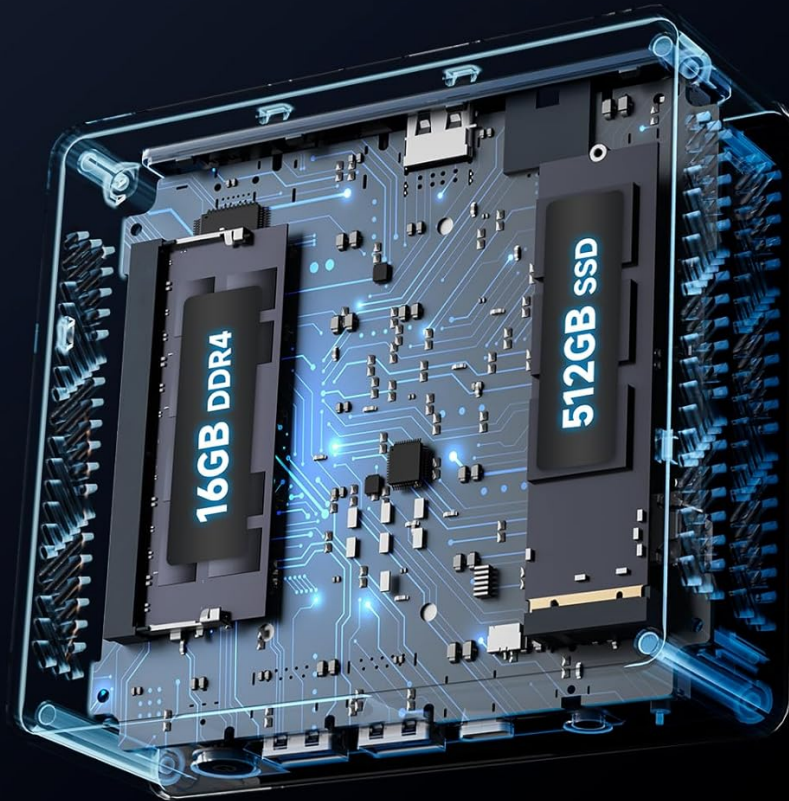


Image 5.1: An internal view of the Mini PC, illustrating the placement of the 16GB DDR4 memory module and the 512GB SSD.

5.2 General Cleaning

To maintain optimal performance, periodically clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation openings are free from dust accumulation.

6. TROUBLESHOOTING

6.1 System Recovery (Factory Reset)

If you encounter persistent system issues, you can perform a factory reset using the Bmax Smart Recovery Environment.

1. Power on the Mini PC. During startup, you may need to press a specific key (refer to on-screen prompts if available) to enter the recovery environment.
2. In the Bmax Smart Recovery Environment, select 'Factory Reset' to restore your Windows system to its original factory settings.
3. Follow the on-screen instructions to complete the process. **Warning:** A factory reset will erase all data on your primary drive. Back up important files before proceeding.

Exclusive & Innovative One-key

Strong security with easy recovery options

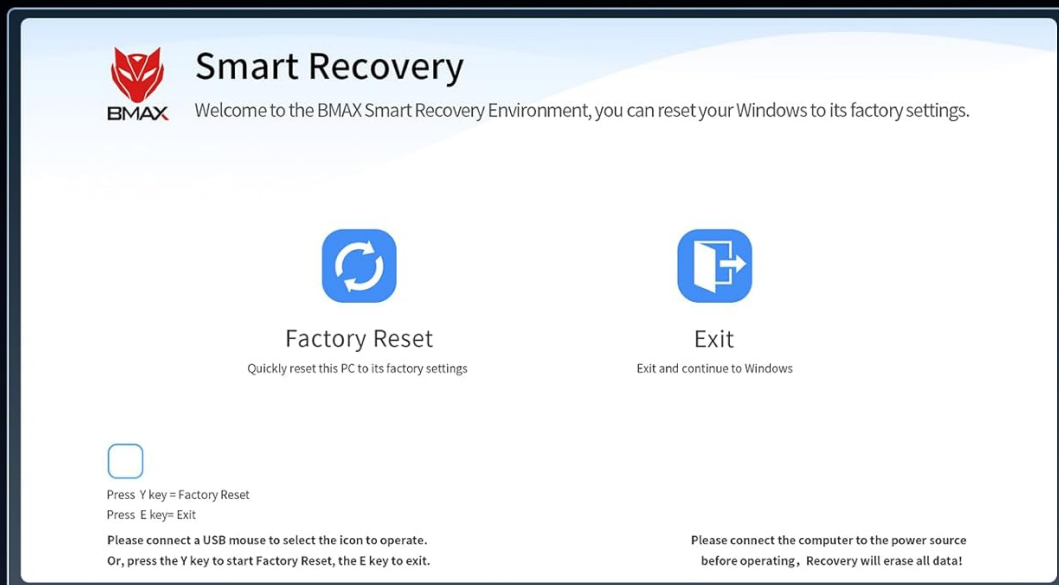


Image 6.1: The Bmax Smart Recovery interface, offering options for 'Factory Reset' and 'Exit' to Windows.

6.2 Clear CMOS

If you experience boot issues or incorrect BIOS settings, you can clear the CMOS (Complementary Metal-Oxide-Semiconductor) to reset BIOS settings to default.

- Locate the 'Clear CMOS Button' on the front panel of the Mini PC (refer to Image 3.1).
- With the device powered off and disconnected from power, use a thin, non-conductive object (like a paperclip) to press and hold the Clear CMOS button for 5-10 seconds.
- Reconnect power and attempt to boot the system.

6.3 Common Issues

- **No Display:** Ensure all display cables are securely connected and the monitor is powered on and set to the correct input source. Try connecting to a different display port or monitor.
- **System Overheating:** Ensure the Mini PC is placed in a well-ventilated area and that its vents are not obstructed. Avoid placing it on soft surfaces that can block airflow.
- **Loud Fan Noise:** While the device features a built-in cooling fan, prolonged heavy loads may increase fan speed and

noise. Ensure proper ventilation. If noise is excessive during light use, contact support.

7. SPECIFICATIONS

Below are the technical specifications for the Bmax Mini PC B4 Turbo:

Feature	Detail
Processor	Intel Twin Lake N150 (up to 3.6 GHz, 4 Cores, 4 Threads, 6MB L3 Cache)
Memory	16GB DDR4 SDRAM (3200 MHz)
Storage	512GB M.2 SSD (Serial ATA interface)
Operating System	Windows 11
Graphics	Intel UHD Graphics (up to 1 GHz, 24 Execution Units)
Video Output	2x HDMI 2.1, 1x USB Type-C (supports 4K/60Hz triple screen display)
USB Ports	2x USB 3.0, 2x USB 2.0, 1x USB Type-C (full-featured)
Network	RJ45 Ethernet, WiFi
Audio	3.5mm Stereo Headset Jack
Power Supply	DC12V/2A
Dimensions	Approximately 11.03 x 6.19 x 3.03 inches
Weight	Approximately 1.6 pounds

2025 New Intel 13th Alder Lake **N150** Processor CPU

7nm
CPU

4 Cores
4 Threads

6MB
L3 Cache

6W
TDP

0.8GHz
Base Frequency

3.6Hz
Burst Frequency

CPU-Z Score

↑ 30%

N150 provides 30%
improvement over
N5095 processor

N150

1284.9

N5095 989

N100 949

Image 7.1: Details of the Intel 13th Gen Alder Lake N150 Processor CPU, including 7nm CPU, 4 Cores, 6MB L3 Cache, 6W TDP, 0.8GHz Base Frequency, and 3.6GHz Burst Frequency, with a performance comparison to N5095 and N100.

N150 GPU update, Smart fan

GPU update		
N150	Intel UHD- 24EU	up to 1 GHz
N100	Intel UHD- 24EU	up to 750 MHz

silent fan built-in

built-in fantastic cooling fan, heat sink, and hard drive cooler help cool down the hardware

Image 7.2: GPU update details for the N150 (Intel UHD-24EU, up to 1 GHz) compared to N100 (Intel UHD-24EU, up to 750 MHz), also mentioning the silent fan, heat sink, and hard drive cooler.

8. WARRANTY AND SUPPORT

Bmax is committed to providing reliable products and customer service.

- **Warranty:** The product includes a 12-month warranty for quality defects.
- **Returns:** A 30-day free return or replacement is offered.
- **Technical Support:** Lifetime technical support is available.

8.1 Contacting Support

For inquiries, system updates, or troubleshooting assistance, please contact Bmax customer support through the following method:



- Login to your Amazon account.
- Navigate to 'Your Account' > 'Your Orders'.
- Locate your Bmax Mini PC order and select 'Ask Product Question'.



Image 8.1: Information on after-sales support, including how to contact via Amazon, 30-day free return, 12-month warranty, and lifetime technical support.

Related Documents - B4 turbo

	<p>BMAX Mini PC User Manual and Installation Guide</p> <p>Comprehensive user manual for BMAX Mini PC, covering initial setup, language settings, hardware installation (M.2 SSD, 2.5" HDD/SSD, memory modules), and recovery environment. Includes FCC compliance information and safety warnings.</p>
	<p>BMAX B2 PLUS Mini PC User Manual and Warranty Information</p> <p>Comprehensive guide for the BMAX B2 PLUS Mini PC, covering setup, features, and warranty details. Includes multilingual instructions and technical specifications.</p>
	<p>BMAX Kids Tablet I9 Plus User Manual - Features and Operation</p> <p>Official user manual for the BMAX Kids Tablet I9 Plus, featuring Android 15, 8GB RAM, 64GB ROM, a 10.1-inch screen, and Allwinner RK3562 processor. Learn about setup, features, and safety.</p>
	<p>BMAX MB01 Tablet PC User Manual</p> <p>User manual for the BMAX MB01 Tablet PC, covering appearance, features, settings, and FCC compliance information.</p>

	<p>BMAX Mini PC User Manual and Installation Guide</p> <p>Comprehensive user manual for BMAX Mini PC, covering initial setup, language settings, hardware installation (M.2 SSD, 2.5" HDD/SSD, memory modules), and recovery environment. Includes FCC compliance information and safety warnings.</p>
 <p>TUF Z370-PLUS GAMING II</p>	<p>مشخصات، نصب و تنظیمات ASUS TUF Z370-PLUS GAMING II: راهنمای مادربرد</p> <p>شامل مشخصات فنی، چیدمان قطعات، راهنمای جامع مادربرد و ویژگی‌های خاص ایسوس، RAID و BIOS و حافظه، تنظیمات CPU دستورالعمل‌های نصب</p>