Bmax B4

Bmax B4 Mini PC User Manual

Model: B4 | Brand: Bmax

1. INTRODUCTION

Welcome to the user manual for your Bmax B4 Mini PC. This compact and powerful desktop computer is designed for both home and office use, featuring an Intel 12th Gen Alder Lake-N95 processor, 16GB of DDR4 RAM, and a 512GB SSD. It supports 4K dual display output, offering versatile connectivity options including HDMI 2.0, WiFi, Bluetooth, and Gigabit Ethernet.

This manual provides essential information on setting up, operating, maintaining, and troubleshooting your Bmax B4 Mini PC to ensure optimal performance and longevity.

The Bmax B4 Mini PC is designed to be ultra-light and portable, fitting easily into various workspaces.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- 1 x Bmax B4 Mini PC (16GB+512GB configuration)
- 1 x HDMI Cable
- 1 x User Manual (this document)
- 1 x US Power Adapter
- 1 x VESA Mount with Screws

3. PRODUCT OVERVIEW

The Bmax B4 Mini PC is engineered for performance and versatility. Below are key features and a diagram of its interfaces.

Front and side view of the Bmax B4 Mini PC, highlighting its compact design and accessible front ports.

3.1 Key Features

- **Processor:** Intel 12th Gen Alder Lake-N95 (4C/4T, up to 3.4GHz)

- **Memory:** 16GB SO-DIMM DDR4 3200MHz RAM

- **Storage:** 512GB M.2 SATA 2280 SSD, expandable with 2.5-inch SSD/HDD (up to 2TB)

- **Graphics:** Intel UHD Graphics with 4K@60Hz dual display support

- **Connectivity:** WiFi-5 (2.4GHz/5GHz), Bluetooth 4.2, Gigabit Ethernet

- **Operating System:** Supports OS 11 Pro 64 Bit and Ubuntu

An overview of the Bmax B4 Mini PC's impressive specifications and capabilities.

3.2 Interface Layout

Familiarize yourself with the various ports and connectors on your Mini PC:
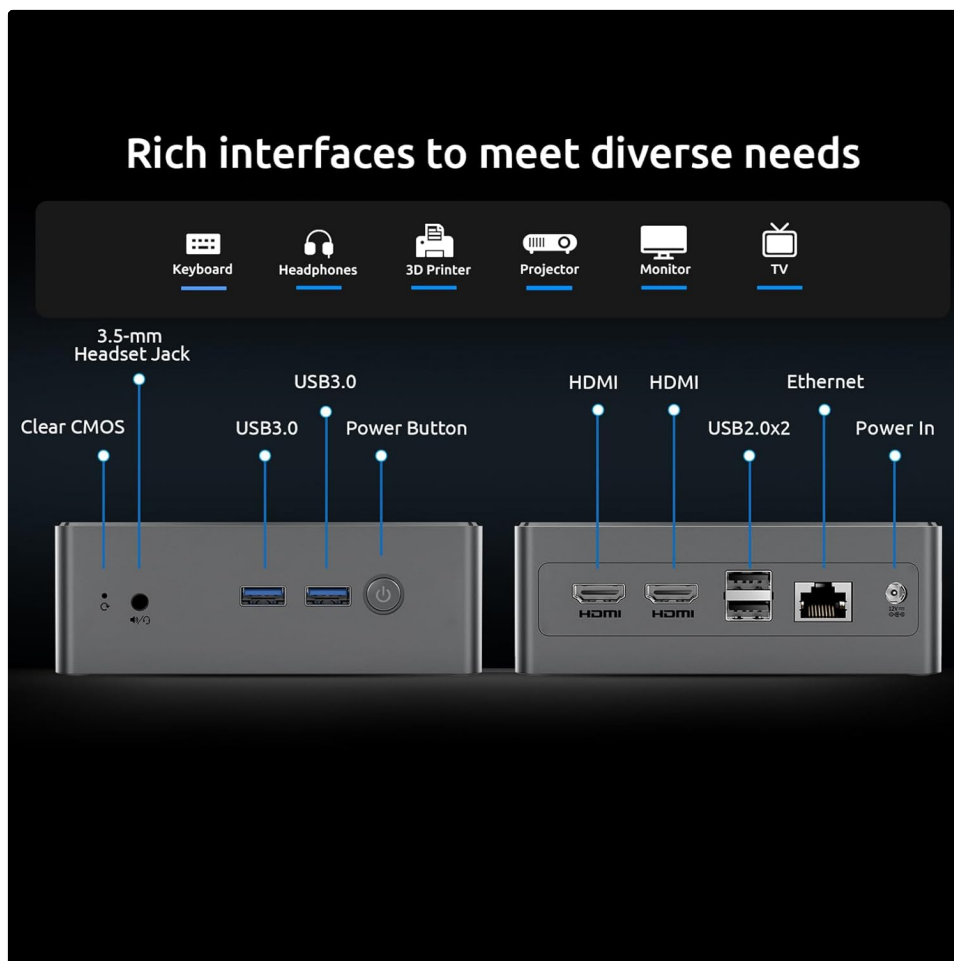
Detailed view of the Bmax B4 Mini PC's rich interfaces, designed to meet diverse connectivity needs.

- **Front Panel:** 3.5-mm Stereo Headset Jack, 2x USB 3.0 ports, Power Button, Clear CMOS button.
- **Rear Panel:** DC Port (Power In), RJ45 (Gigabit Ethernet), 2x USB 2.0 ports, 2x HDMI 2.0 ports.

3.3 Product Video Overview

Watch this official product video for a visual guide to the Bmax B4 Mini PC's features and applications.

Your browser does not support the video tag.

Official video showcasing the Bmax B4 Mini PC, its compact design, various ports, and potential uses in home and office environments, including gaming and multi-monitor setups.
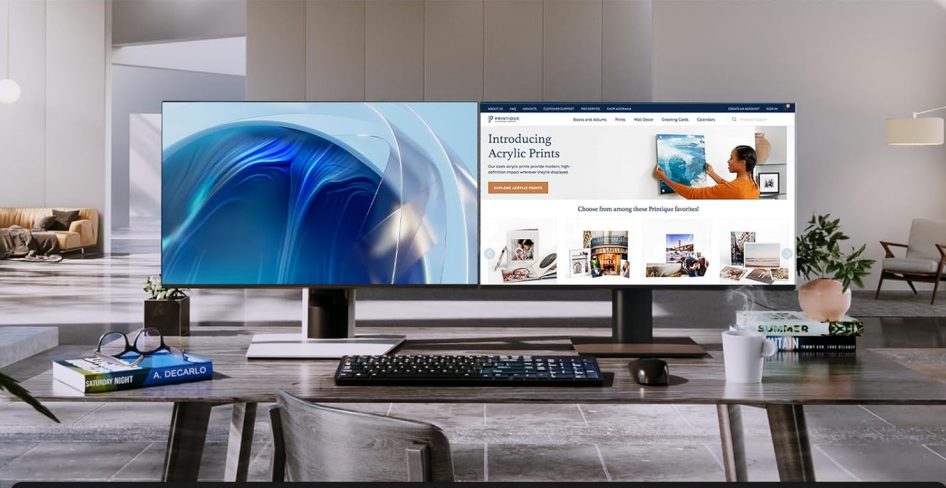
4. SETUP INSTRUCTIONS

Follow these steps to set up your Bmax B4 Mini PC:

1. **Connect to Power:** Plug the US Power Adapter into the DC Port on the rear of the Mini PC, then connect it to a power outlet.

2. **Connect to Display:** Use the provided HDMI cable to connect one of the HDMI ports on the Mini PC to your monitor or TV. For dual display, connect a second monitor to the other HDMI port.

3. **Connect Peripherals:** Plug in your keyboard and mouse to the available USB ports (USB 3.0 on the front, USB 2.0 on the rear).

4. **Network Connection (Optional):** For a wired internet connection, connect an Ethernet cable from your router to the RJ45 port on the rear. Wireless connection (WiFi) can be configured after initial boot.

5. **Power On:** Press the Power Button on the front panel to turn on the Mini PC.

6. **Initial Setup:** Follow the on-screen instructions to complete the operating system setup (e.g., Windows 11 Pro or Ubuntu).

The Bmax B4 Mini PC supports 4K dual display output, enhancing productivity and entertainment.

5. OPERATING INSTRUCTIONS

Your Bmax B4 Mini PC is ready for various tasks, from daily computing to multimedia consumption.

5.1 Operating System

The Mini PC comes pre-installed with OS 11 Pro 64 Bit and also supports Ubuntu. You can switch between or install your preferred operating system as needed.

5.2 Dual Display Setup

Utilize the two HDMI 2.0 ports to extend your desktop across two 4K monitors for enhanced multitasking. Configure display settings within your operating system.
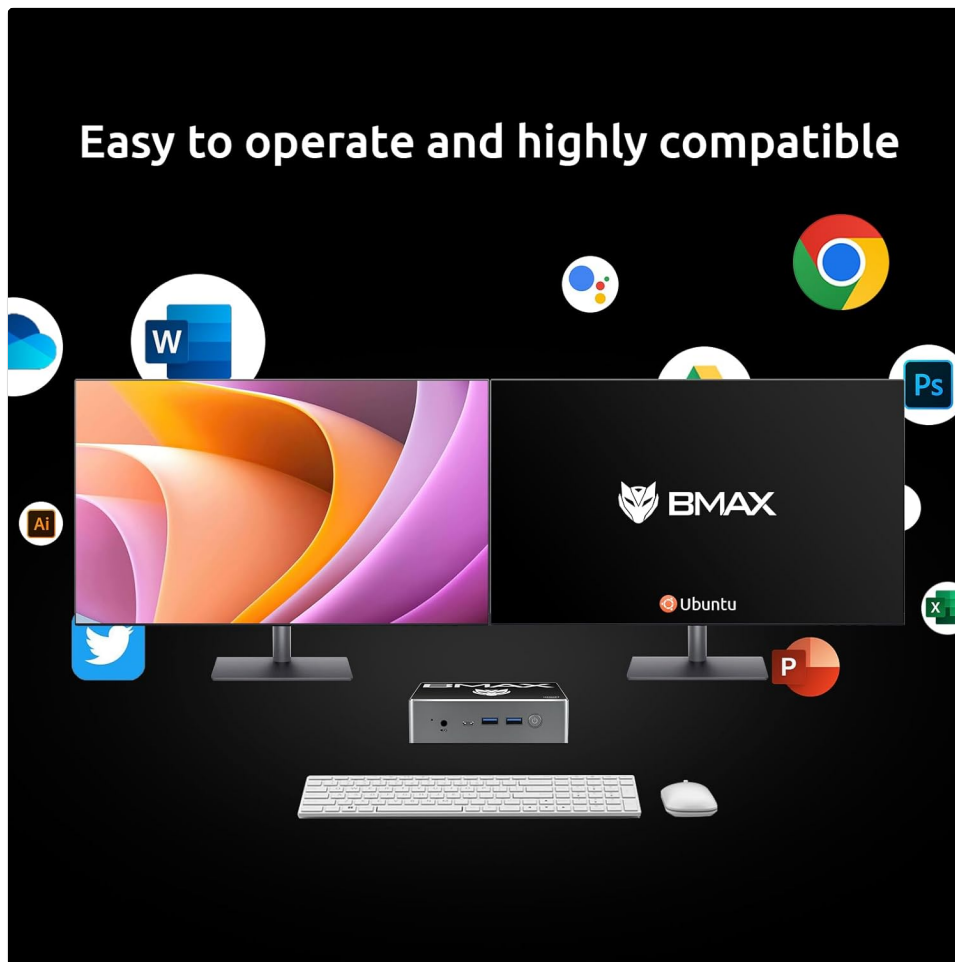
The Bmax B4 Mini PC is easy to operate and highly compatible with various applications and operating systems.

5.3 Connectivity

- **WiFi:** Connect to 2.4GHz or 5GHz wireless networks for high-speed internet access.
- **Bluetooth:** Pair Bluetooth 4.2 compatible devices such as wireless mice, keyboards, headphones, or printers.
- **Ethernet:** For a stable and fast wired connection, use the Gigabit Ethernet port.

5.4 Usage Scenarios

The Bmax B4 is suitable for a wide range of applications:

- **Office Work:** Efficiently handle documents, spreadsheets, presentations, and video conferences.
- **Home Entertainment:** Enjoy 4K movie viewing, streaming content from platforms like Netflix, YouTube, and Amazon Prime Video.
- **Light Gaming:** Capable of running less graphically intensive games.
- **Educational Use:** Ideal for online learning and research.

The Bmax B4 Mini PC facilitates efficient office work with its multi-display support and processing power.
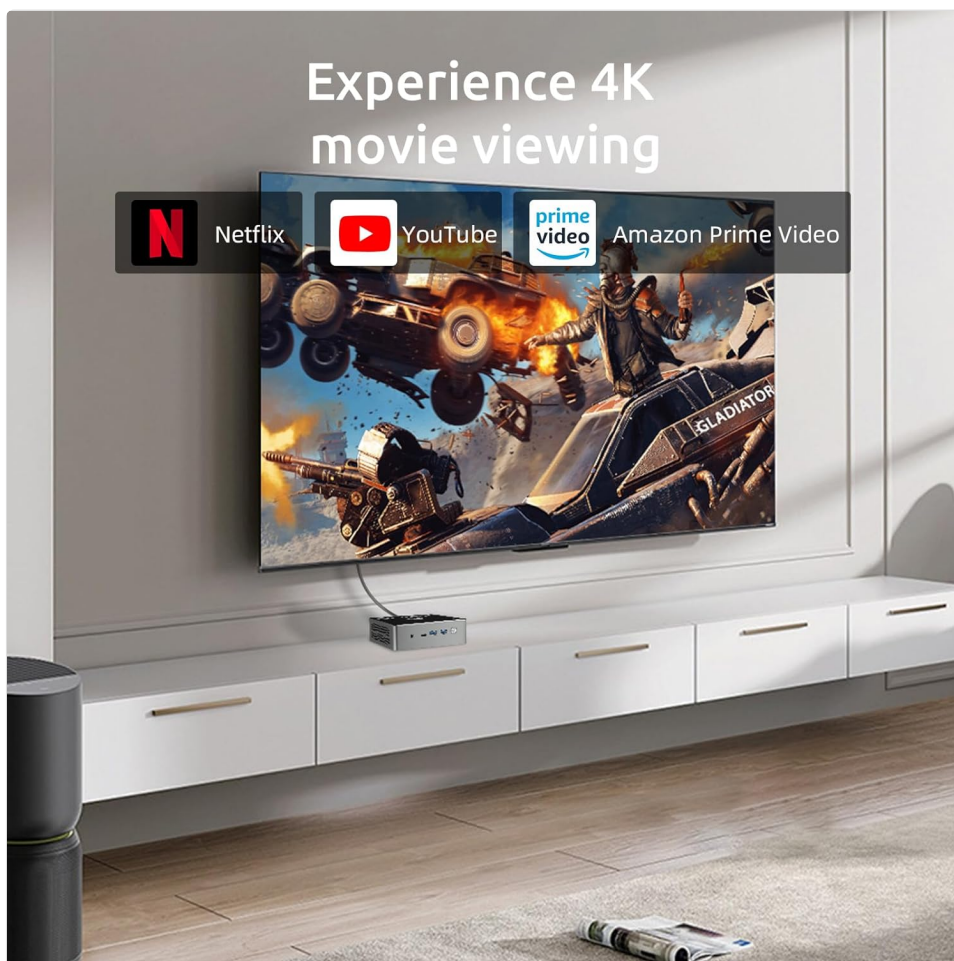
Experience immersive 4K movie viewing with your Bmax B4 Mini PC.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Bmax B4 Mini PC.

6.1 Cooling System

The Mini PC is equipped with a smart fan for efficient heat dissipation, keeping the system cool and quiet. Ensure proper airflow around the device by not blocking the vents.

The efficient heat dissipation system ensures silent operation and stable performance.

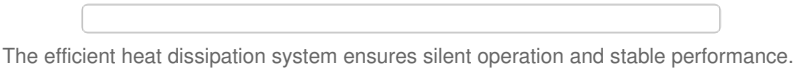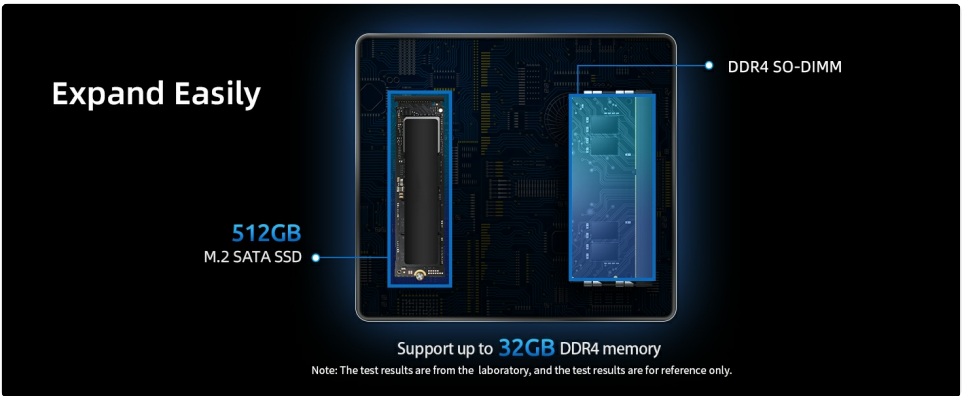## 6.2 Storage Expansion

The 512GB SSD provides ample storage, but you can expand it further. The detachable empty base allows for easy installation of a DIY 2.5-inch SSD/HDD, supporting up to 2TB of additional storage.

Easily expand your storage by adding a 2.5-inch SSD or HDD.

6.3 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to gently clear dust from vents to maintain optimal cooling.

6.4 Software Updates

Keep your operating system and drivers updated to ensure security, stability, and performance. Refer to your OS documentation for update procedures.

7. TROUBLESHOOTING

If you encounter issues with your Bmax B4 Mini PC, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Power adapter not connected, power outlet issue.	Ensure power adapter is securely connected to the PC and a working power outlet. Try a different outlet.
No Display	Monitor not connected, incorrect input source, faulty cable.	Check HDMI cable connections. Ensure monitor is on and set to the correct input source. Try a different HDMI cable or monitor.
Slow Performance	Too many applications running, insufficient free storage, outdated drivers.	Close unnecessary applications. Free up disk space. Update operating system and drivers. Check for proper ventilation.

Problem	Possible Cause	Solution
Network Connectivity Issues	Incorrect WiFi password, router issues, driver problems.	Verify WiFi password. Restart router. Update network drivers. Try a wired Ethernet connection.

One-key Smart Recovery: If your system crashes or experiences severe issues, the Bmax B4 Mini PC supports a "One-key Smart Recovery" feature. This option allows you to restore or reinstall the system configuration to a working state. Refer to the detailed instructions in the included User Manual for this procedure.
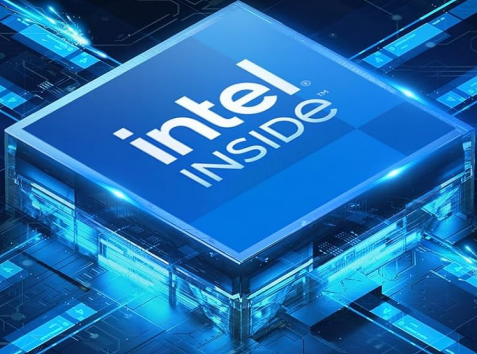
8. SPECIFICATIONS

Detailed technical specifications for the Bmax B4 Mini PC:

Feature	Detail
Processor	Intel 12th Gen Alder Lake-N95 (4 Cores/4 Threads, up to 3.4GHz, 6M Cache)
RAM	16 GB SO-DIMM DDR4 3200MHz
Storage	512 GB M.2 SATA 2280 SSD (Expandable with 2.5-inch SSD/HDD up to 2TB)
Graphics	Intel UHD Graphics (Supports 4K@60Hz, Dual HDMI 2.0)
Operating System	OS 11 Pro 64 Bit, supports Ubuntu
Connectivity	WiFi-5 (802.11 a/b/g/n/ac 2.4GHz/5GHz), Bluetooth 4.2, Gigabit Ethernet (RJ45)
Ports	2x HDMI 2.0, 2x USB 3.0, 2x USB 2.0, 1x RJ45, 1x 3.5-mm Stereo Headset Jack, 1x DC Port, 1x Clear CMOS
Dimensions	12.5 cm (W) × 11.2 cm (L) × 4.4 cm (H)
Weight	Approximately 1.61 pounds

Powerful processing capability, more confident handling

Intel 12th Gen Alder Lake N95 Processor

intel INSIDE

4	4	15W	6MB	10nm	3.40GHz
Cores	Threads	Power Consumption	Cache	Process	Turbo Frequency

PassMark Benchmark Score

PassMark CPU Mark Score

34%

N95 Compared to N5105 Performance Improvement

N95   5448

N5105   4059

Note: The test results are from the PassMark CPU Mark laboratory, and the test results are for reference only.

Detailed specifications of the Intel N95 processor and its performance benchmark.

High configuration
16GB memory and 512GB SSD
Meet your daily needs

M.2 SATA 2280 SSD

16GB+512GB

8s	2-3s	100,000fix	128part
Booting takes only	Opening an Office file takes	Can store 100,000 high-resolution photos at 5MB each	Can store up to 128 HD movies at 720P each

DDR4 SO-DIMM

512GB
M.2 SATA SSD

Note: The test results are from the laboratory, and the test results are for reference only.

High configuration memory and SSD details for daily needs.

9. Warranty and Support

Bmax is committed to providing excellent customer service for your Mini PC.

- **Technical Support:** Enjoy lifetime technical support for your Bmax Mini PC.
- **Online Service:** 7 days/24 hours online service is available for any inquiries or assistance you may need.
- **Warranty:** The product comes with a 12-month warranty.

If you have any questions or require further assistance, please do not hesitate to contact Bmax customer support.