

Bmax B9 Power

Bmax Mini PC B9 Power User Manual

Model: B9 Power | Brand: Bmax

INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, and maintaining your Bmax Mini PC B9 Power. This high-performance mini desktop computer is equipped with an Intel Core i9-12900HK processor, 32GB DDR4 RAM, and a 1TB NVMe SSD, designed for efficient multitasking, gaming, and multimedia consumption. It supports triple 4K/60Hz display output and features advanced cooling technology.



Image: Front and rear view of the Bmax Mini PC B9 Power, showcasing its compact design and various ports.

WHAT'S IN THE BOX

- 1 x B9 Power MINI PC
- 1 x HDMI cable
- 1 x User Manual (this document)
- 1 x US Power Adapter
- 1 x VESA Mount with Screws

SETUP GUIDE

1. Connecting Your Mini PC

Follow these steps to connect your Bmax Mini PC B9 Power to your display and peripherals:

1. **Connect to Display:** Use the provided HDMI cable to connect the Mini PC's HDMI port to your monitor or TV. Alternatively, you can use the DisplayPort (DP) or Type-C port for video output. This Mini PC supports up to three 4K/60Hz displays simultaneously.
2. **Connect Peripherals:** Plug your USB keyboard and mouse into the available USB 3.2 or USB 2.0 ports.
3. **Connect to Network:** For wired internet, connect an Ethernet cable to the RJ45 port. For wireless internet, the device supports WiFi 6.
4. **Power Connection:** Connect the US Power Adapter to the DC Power Port on the Mini PC, then plug the adapter into a power outlet.

Multi expansion interface

Meet the needs of multiple scenarios

Keyboard

Headphones

3D Printer

Projector

Monitor

TV



Image: Detailed view of the Bmax Mini PC's ports, including USB 3.2, USB 2.0, Type-C, HDMI 2.1, DisplayPort 1.4a, RJ45, 3.5mm Audio Jack, and DC Power In.

2. Initial Power On

After connecting all necessary cables, press the power button located on the front of the Mini PC. The system will boot up, and you will see the operating system interface on your connected display.

3. VESA Mount Installation (Optional)

The Bmax Mini PC B9 Power comes with a VESA mount, allowing you to attach it to the back of a compatible monitor or to a wall, saving desk space.

1. Attach the VESA mount bracket to the back of your monitor or desired wall location using the provided screws.
2. Slide the Mini PC onto the VESA mount until it clicks securely into place.



Image: Demonstrates various space-saving installation options, including mounting behind a monitor or placing on a desk.

OPERATING INSTRUCTIONS

System Overview

The Bmax Mini PC B9 Power is pre-installed with an operating system (OS) and is ready for use upon initial setup. It features a powerful Intel Core i9-12900HK processor, 32GB DDR4 RAM, and a 1TB NVMe SSD for high-speed performance and ample storage.



Image: An infographic highlighting key features such as Intel Core i9-12900HK, Intel Iris Xe Graphics, 32GB DDR4, 1TB NVMe SSD, Space Capsule Cooling System, triple display support, WiFi 6, Bluetooth 5.2, USB ports, 4K/60Hz support, Linux (Ubuntu) support, and pre-installed Windows 11.

Processor and Performance

Equipped with the Intel Core i9-12900HK processor, featuring 14 cores and 20 threads with a max turbo frequency of 5.00GHz, this Mini PC delivers exceptional performance for demanding applications, multitasking, and gaming. The 32GB DDR4 memory ensures smooth operation even with multiple applications running simultaneously.

Intel Core i9-12900HK Strong Processor

14

Cores

20

Threads

Intel 7
Lithography
Technology

24MB

Intel Smart Cache

5.00GHz

Max Turbo Frequency

PassMark Benchmark Score



21.3%

i9-12900HK provides 21.3% improvement over i7-12650H processor

i9-12900HK

27414

i7-12650H

23134

i9-11950H

21400

i9-11900H

20655

Image: Visual representation of the Intel Core i9-12900HK processor's specifications, including 14 cores, 20 threads, Intel 7 lithography, 24MB Intel Smart Cache, and 5.00GHz Max Turbo Frequency. Also shows a performance comparison chart.

Storage and Memory

The 1TB NVMe SSD provides rapid boot times and quick application loading, significantly faster than traditional SSDs. The 32GB DDR4 RAM (3200MHz) ensures ample memory for all your computing needs, from office tasks to creative work and entertainment.

Handle Multiple Applications Easily

Ample storage and memory capacity ensures stable operation

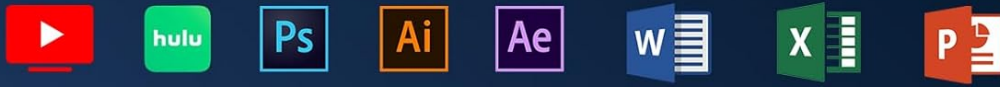


Image: Depicts the Mini PC handling various applications like Hulu, Photoshop, AI, After Effects, Word, Excel, and PowerPoint, alongside multimedia tasks such as listening to music, playing games, and watching movies, emphasizing its ability to accommodate massive files.

Display Capabilities

The Mini PC supports triple 4K@60Hz display outputs via HDMI 2.1, USB-C (full features), and DisplayPort. This allows for an expansive workspace, ideal for professional use, multi-monitor gaming, or a home theater setup.

Triple 4K@60Hz Outputs Support

Enjoy high-definition video quality to enhance the audio-visual experience.



HDMI2.1



USB-C



Display Port



Image: Shows the Mini PC connected to three monitors, demonstrating its triple 4K@60Hz output capability for an enhanced visual experience.

Connectivity

The B9 Power features built-in 802.11a/b/g/n/ac/ax WiFi 6 for high-speed wireless networking and Bluetooth 5.2 for connecting wireless peripherals like headsets, mice, and keyboards.



Image: A comparison chart illustrating the speed advantages of WiFi 6 over WiFi 5, showing faster speeds, higher throughput, and lower latency.

Official Product Video

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Video: An official product video from BMAX Tech showcasing the features and capabilities of the Bmax Mini PC B9 Power, including its processor, memory, storage, cooling, and connectivity options. (Duration: 0:40)

MAINTENANCE

Cooling System

The B9 Power features a "Space Capsule Cooling System" with an enlarged double copper heat pipe and a high-performance turbo smart fan. This design ensures efficient heat dissipation, maintaining stable performance even under heavy workloads.

Built-in Smart Cooling Fan

providing efficient, quiet, and reliable cooling



Enlarged Double
Copper Heat Pipe



Giant Turbo
Smart Fan



Top Cover Cooling
Design



Efficient Heat
Dissipation Design

Completely Improve Power Consumption and Performance

↑ **15%-25%**

Compared with ordinary radiators,
performance is improved by

Space capsule cooling system

45W

Ordinary radiator

25W

Image: Illustrates the internal cooling components, including the giant turbo smart fan and enlarged double copper cooling pipe, highlighting the efficient heat dissipation design.

General Care

- Keep the Mini PC in a well-ventilated area to ensure optimal airflow.
- Avoid blocking the ventilation holes on the device.
- Clean the exterior of the Mini PC regularly with a soft, dry cloth. Do not use liquid cleaners.
- Periodically check for dust accumulation in the vents and gently clean with compressed air if necessary.

TROUBLESHOOTING

Smart Recovery System

The Bmax Mini PC B9 Power includes a unique "Smart Recovery" feature to help resolve operating system issues, such as crashes, slow response, or problems during OS upgrades. This allows you to quickly reset your system to its factory settings.

Quickly Recover System



Smart Recovery

Welcome to the BMAX Smart Recovery Environment, you can reset your system to its factory settings.



Factory Reset

Quickly reset this PC to its factory settings



Exit

Exit and continue to system



Press Y key = Factory Reset
Press E key = Exit

Please connect a USB mouse to select the icon to operate.
Or, press the Y key to start Factory Reset, the E key to exit.

Please connect the computer to the power source
before operating, Recovery will erase all data!

Image: The Smart Recovery screen, offering options for "Factory Reset" and "Exit". Instructions indicate connecting a USB mouse or pressing "Y" for factory reset and "E" to exit. A warning notes that recovery will erase all data and requires power connection.

To access the Smart Recovery Environment:

- Ensure the Mini PC is connected to a power source.
- Connect a USB mouse to navigate the recovery menu.
- Follow the on-screen instructions to perform a "Factory Reset" or "Exit" to the system.
- **Warning:** A factory reset will erase all data on the drive. Back up important files before proceeding.

Common Issues and Solutions

Issue	Possible Cause	Solution
No display output	Incorrect cable connection, monitor input not selected, power issue.	Check HDMI/DP/Type-C cable connections. Ensure monitor is on and set to correct input source. Verify power adapter is securely connected.

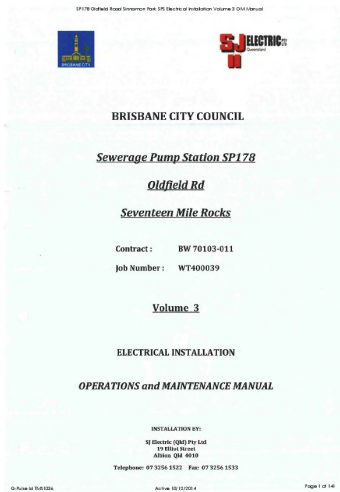
Issue	Possible Cause	Solution
No power	Power adapter not connected, faulty outlet.	Ensure power adapter is fully plugged into the Mini PC and a working power outlet. Try a different outlet.
Wi-Fi not connecting	Incorrect Wi-Fi password, router issue, driver problem.	Verify Wi-Fi password. Restart your router. Check device manager for Wi-Fi driver status.
System slow/unresponsive	Too many applications running, low disk space, malware.	Close unnecessary applications. Free up disk space. Run a system scan for malware. Consider using the Smart Recovery feature if issues persist.

SPECIFICATIONS

Feature	Detail
Processor	Intel Core i9-12900HK (up to 5.0GHz, 14 Cores/20 Threads)
Graphics	Intel Iris Xe Graphics (1.45Ghz)
RAM	32GB DDR4 (3200MHz)
Storage	1TB NVMe SSD
Video Output	HDMI 2.1 (4K@60Hz), DisplayPort (DP), Type-C (full features) - Supports Triple Display
Wireless Connectivity	WiFi 6 (802.11a/b/g/n/ac/ax), Bluetooth 5.2
Wired Connectivity	RJ45 Ethernet
USB Ports	2 x USB 3.2, 2 x USB 2.0, 1 x Type-C (full features)
Audio	1 x 3.5-mm Stereo Headset Jack
Operating System	Pre-installed OS (as per product description, likely Windows 11)
Cooling System	Space Capsule Cooling System (Giant Turbo Smart Fan, Enlarged Double Copper Heat Pipe)
Dimensions	11.02 x 6.18 x 2.91 inches (Package Dimensions)
Weight	1.83 pounds

WARRANTY AND SUPPORT

Bmax offers a 12-month warranty for the B9 Power Mini PC. For technical support, warranty claims, or any product-related inquiries, please contact Bmax customer service through their official channels or the retailer where the product was purchased. You can visit the official Bmax store on Amazon for more information and support resources:[Bmax Amazon Store](#)



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No.2 COMMISSIONING MANAGER B Display the **B9 Power** Diagram for easy
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