

Beelink MINI S12 PRO

Beelink Mini S12 PRO Mini PC User Manual

Model: MINI S12 PRO

1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your Beelink Mini S12 PRO Mini PC. Please read it thoroughly before using the device.

The Beelink Mini S12 PRO is a compact and efficient mini PC designed for various computing tasks. It features an Intel Alder Lake-N100 processor, 16GB DDR4 memory, and a 512GB M.2 NVMe SSD, offering responsive performance for daily computing, office applications, and 4K video playback.



Image: The Beelink Mini PC in a typical office setup, demonstrating its compact size and integration with a monitor, keyboard, and mouse.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1x Beelink MINI S12 PRO N100 Mini PC
- 1x User Manual
- 1x HDMI Cable

- 1x Power Adapter
- 1x Wall-mounted Bracket
- 1x Pack of Screws



Image: A visual representation of the accessories included with the Beelink Mini S12 PRO, such as the user manual, HDMI cables, power adapter, and wall-mounted bracket.

3. PRODUCT OVERVIEW

3.1 Front Panel



Image: The front panel of the Mini PC, highlighting the RTC Key, two USB 3.2 Gen 2 (10Gbps) ports, earphone jack, and power button.

- **RTC Key:** Real-Time Clock reset button.
- **USB 3.2 Gen 2 (10Gbps) Ports:** Two high-speed USB ports for connecting peripherals.
- **Earphone Jack:** For audio output.
- **Power Button:** To turn the device on or off.

3.2 Rear Panel



Image: The rear panel of the Mini PC, showing two additional USB 3.2 Gen 2 (10Gbps) ports, a 2.5G LAN port, two 4K 60Hz HDMI ports, and the DC power input.

- **USB 3.2 Gen 2 (10Gbps) Ports:** Two additional high-speed USB ports.
- **LAN (2.5G) Port:** For wired network connection.
- **4K 60Hz HDMI Ports:** Two HDMI outputs for connecting displays, supporting up to 4K resolution at 60Hz.
- **DC Power Adapter Input:** Connect the provided power adapter here.
- **Locking Slot:** For security cable.

3.3 Internal Components



Image: An internal view of the Mini PC, illustrating the M.2 2280 NVMe/SATA3 SSD slots for storage expansion.

- **M.2 2280 NVMe/SATA3 SSD Slots:** Supports up to 4TB storage. Note: PCIe 3.0 x1 slot is not compatible with SATA3 SSDs, while PCIe 3.0 x4 slot is compatible with SATA3 SSDs.
- **SO-DIMM DDR4 Slot:** Supports up to 16GB DDR4 memory.

4. SETUP GUIDE

4.1 Initial Connection

1. **Connect to Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV.
2. **Connect Peripherals:** Plug in your USB keyboard and mouse into the available USB ports.
3. **Connect to Network:** For a wired connection, connect an Ethernet cable to the LAN port. For wireless, ensure your Wi-Fi network is available.
4. **Connect Power:** Plug the power adapter into the DC input port on the Mini PC, then connect it to a power outlet.

4.2 First Boot

1. Press the power button on the front panel.
2. The system will boot up. Follow the on-screen instructions to complete the operating system setup (if applicable).

4.3 Wall Mounting (Optional)

Use the included wall-mounted bracket and screws to attach the Mini PC to the back of a VESA-compatible monitor or a wall, saving desk space.



Image: The wall-mounted bracket and its dimensions, demonstrating how it can be used to secure the Mini PC.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press the power button on the front panel.
- **Power Off:** Use the operating system's shutdown function. Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2 Dual Display Setup

Connect two monitors to the two HDMI ports on the rear panel. The system will automatically detect the displays. You can configure display settings (e.g., extend, duplicate) within your operating system's display settings.

5.3 Network Connectivity

- **Wired:** Connect an Ethernet cable to the 2.5G LAN port.
- **Wireless:** The Mini PC supports Wi-Fi 6. Access your operating system's network settings to connect to a Wi-Fi network.
- **Bluetooth:** The Mini PC supports Bluetooth 5.2. Use your operating system's Bluetooth settings to pair with compatible devices.

5.4 BIOS Settings

To access the BIOS, press the **DEL** key repeatedly during startup. Here you can configure advanced settings such as Auto Power On, Wake-on-LAN (WOL), and PXE boot.



Image: Examples of how the Mini PC can be used for home theater, work/design, study, meetings, online education, gaming, and digital signage.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the exterior of the Mini PC with a soft, dry cloth.
- Ensure ventilation openings are free from dust and obstructions to maintain optimal cooling.

6.2 Cooling System

The Mini PC features an ultra-quiet fan and heatsink for efficient CPU cooling. Proper airflow is crucial for stable performance.



Image: A diagram illustrating the airflow and components of the CPU's silent fan and heatsink, designed for effective heat dissipation.

6.3 Storage Expansion

The internal M.2 2280 NVMe SSD can be expanded up to 4TB. Refer to the product overview section for details on compatible SSD types for each slot. Always power off and disconnect the device before performing any internal upgrades.

7. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- **No Display:** Check HDMI cable connections to both the Mini PC and the monitor. Ensure the monitor is set to the correct input source.
- **No Network Connection:** For wired connections, verify the Ethernet cable is properly connected. For Wi-Fi, check network settings and ensure the Wi-Fi adapter is enabled.
- **System Slowdown:** Close unnecessary applications. Check for background processes consuming high resources. Ensure adequate ventilation.
- **Peripheral Issues:** Try connecting USB devices to different ports. Ensure drivers are up to date if required.

If issues persist, consult the Beelink technical support team.

8. SPECIFICATIONS

Feature	Detail
Product Type	Mini PC
Dimensions	4.52 x 4.04 x 1.54 inches (115 x 102 x 39 mm)
Weight	Approx. 280g (device only)
CPU	Intel Alder Lake-N100 Processor (4C/4T, up to 3.4GHz, 6MB L3 Cache)
Graphics	Intel UHD Graphics 750MHz (24EUs)
RAM	16GB DDR4 3200MHz (SO-DIMM slot, max 16GB)
Storage	512GB M.2 2280 NVMe SSD (Expandable up to 4TB)
Network	Wi-Fi 6 (802.11ax), Bluetooth 5.2, 2.5G LAN
USB Ports	4x USB 3.2 Gen 2 (10Gbps)
Video Output	2x HDMI (Max 4K 60Hz)
Audio	1x 3.5mm Phone Jack (Two-in-one)
Additional Functions	Auto Power On, Wake up On LAN, PXE
Operating Temperature	0°C–40°C, 90% @40°C Humidity
Storage Temperature	-20°C–60°C, 90% @40°C Humidity



Image: A comprehensive table detailing the technical specifications of the Beelink Mini S12 PRO Mini PC.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product comes with a 1-year warranty. Please retain your proof of purchase for warranty claims.

9.2 Technical Support

Beelink offers lifetime technical support and 24/7 customer service. For assistance, please provide the barcode located at the bottom of your device.

You can also find support by navigating to "Your Account" > "Your Orders" > "Get Help" on the Amazon platform.



Image: Information regarding Beelink's after-sales service, including lifetime technical support and customer service contact methods.

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