

## Beelink MINI S12 N95

# Beelink MINI S12 N95 Mini PC User Manual

Model: MINI S12 N95

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Beelink MINI S12 N95 Mini PC. This compact desktop computer is equipped with an Intel N95 Processor, 8GB DDR4 RAM, and a 256GB SSD, designed for efficient performance in various tasks including home entertainment, web browsing, and office work.

The Beelink MINI S12 N95 features:

- Intel N95 Processor (up to 3.4 GHz, 4 Cores/4 Threads)
- 8GB DDR4 RAM and 256GB M.2 SATA3 SSD
- Dual HDMI for 4K display support
- WiFi5 (802.11ax) and Bluetooth 4.2
- 2.5G LAN port for high-speed internet
- Pre-installed Windows 11 Home operating system

## 2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- Beelink MINI S12 N95 Mini PC
- User Manual
- Wall-mounted bracket
- HDMI cables (quantity may vary)
- Power adapter (with regional plug options)

# Meets a variety of needs in life



Image: Included accessories for the Beelink MINI S12 N95 Mini PC.

## 3. PRODUCT OVERVIEW

### 3.1 External Ports and Connectors

Familiarize yourself with the various ports and connectors on your Mini PC:



Image: Front and rear panel interfaces of the Mini PC.

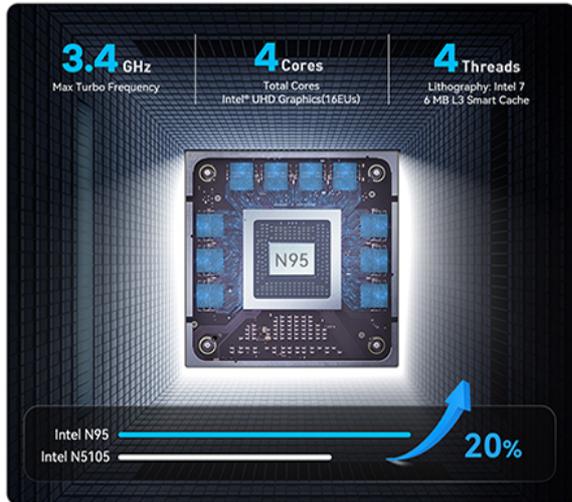
- **Front Panel:** RTC Key (CLR CMOS), USB3.2 Gen2 (10Gbps) ports, Earphone jack, Power button.
- **Rear Panel:** USB3.2 Gen2 (10Gbps) ports, LAN (2.5G) port, 4K 60Hz HDMI ports (x2), DC Power adapter input, Locking slot.

### 3.2 Internal Components

The Beelink MINI S12 N95 supports storage expansion and memory upgrades.

#### Intel Alder Lake-N N95 Processor

Super quiet, no degradation



<b>4 Cores</b> Intel ALD_N N95	<b>4 Threads</b> 6MB Smart Cache	<b>3.4 GHz</b> Max Turbo Frequency
<b>16EUs</b> Intel® UHD Graphics	<b>12TH GENERATION LOW-POWER OFFICE MINI PC</b> Size: 4.52*4.01*1.54 in	
<b>1200MHz</b> Graphics Max Dynamic Frequency	<b>MINI S12</b>	
<b>WiFi 5(802.11ac)</b> Bluetooth4.2 /LAN (2.5G)	<b>DDR4 3200MHz</b> Single Channel 8GB	
<b>SSD Max 2TB</b> Optional:M.2 SSD 256GB	<b>Cooling System</b> 1. Silent fan 2. Heat pipe/heat sink 3. Hard drive cooling cover	

Image: Internal view showing dual SSD high-speed storage slots.

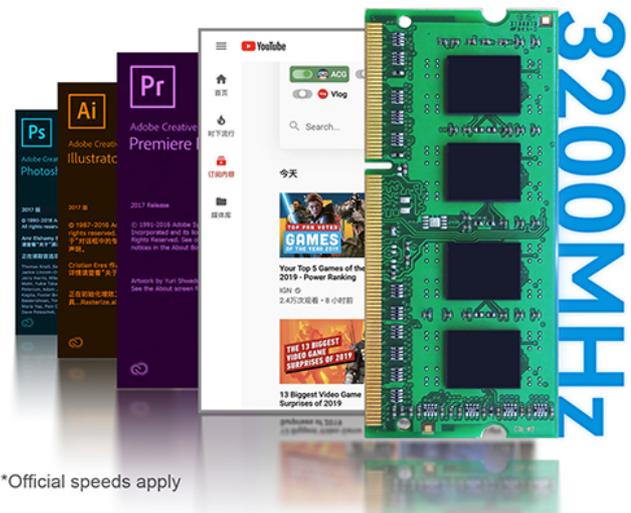
- **SSD Slots:** Supports M.2 2280 NVMe/SATA3 SSD, configurable up to 4TB storage. The Mini S12 ships with a SATA3 SSD.

#### Intel Alder Lake N95/N5105 data comparison

Comparison Items	N95	N5105
Total Cores	4	4
Total Threads	4	4
Max Turbo Frequency	3.4GHz	2.9GHz
Configurable TDP-up Base Frequency	1.7GHz	2.0GHz
Configurable TDP-up	25W (Max Turbo Frequency)	15W
3DMARK11/Peformance	P1549	P1421
Cinebench 20 Running score	957	799

#### SO-DIMM DDR4 3200MHz High quality memory Stable operation

Single-channel support up to 16GB(dependent on memory type), optional single-channel 8/16GB memory.



\*Official speeds apply

Image: SO-DIMM DDR4 3200MHz memory module.

- **RAM:** Single-channel support up to 16GB (dependent on memory type). Optional single-channel 8GB/16GB memory.

## 4. SETUP INSTRUCTIONS

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Follow these steps to set up your Beelink MINI S12 N95 Mini PC:

1. **Connect to Display:** Use an HDMI cable to connect your Mini PC to a monitor or TV. The device supports dual HDMI output for connecting two displays.
2. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB ports.
3. **Network Connection:** For a wired connection, connect an Ethernet cable to the 2.5G LAN port. For wireless, the device supports WiFi5.
4. **Power On:** Connect the power adapter to the DC input port on the Mini PC, then plug the adapter into a power outlet. Press the power button on the front panel to turn on the device.
5. **Initial Setup:** Follow the on-screen instructions to complete the Windows 11 Home setup.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Operation

- **Power On/Off:** Press the power button to turn the PC on. To shut down, use the Windows Start menu options. A short press of the power button can also put the PC to sleep.
- **Restart:** Use the Windows Start menu options to restart the PC.
- **BIOS Access:** To enter the BIOS settings, press the **Delete** key repeatedly during startup.
- **Boot Options:** To access boot options (e.g., boot from USB), press the **F7** key repeatedly during startup.

### 5.2 Dual Display Setup

The Mini PC supports connecting two monitors simultaneously via its dual HDMI ports. This allows for extended desktop functionality, improving work efficiency.

### 5.3 Wake On LAN / Auto Power On

The device supports Wake On LAN and Auto Power On features. For detailed configuration, refer to the official Beelink website or contact support.

For more details, log on to <http://bee-link.com/>

## 6. STORAGE AND MEMORY EXPANSION

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### 6.1 Storage Expansion

The Beelink MINI S12 N95 includes two M.2 2280 SSD slots. One slot supports PCIe3.0 x1 (not compatible with SATA3 SSDs), and the other supports PCIe3.0 x4 (compatible with SATA3 SSDs). This allows for significant storage upgrades up to 4TB.

### 6.2 Memory Upgrade

The Mini PC supports single-channel SO-DIMM DDR4 memory up to 16GB. If you wish to upgrade the RAM, ensure the new module is compatible with DDR4 3200MHz SO-DIMM specifications.

## 7. MAINTENANCE

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## 7.1 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.
- Do not use liquid cleaners or aerosols directly on the device.

## 7.2 Cooling System

The Mini PC features an ultra-quiet fan and heatsink designed for efficient CPU cooling. Ensure the device is placed in a well-ventilated area to prevent overheating, especially during prolonged use or heavy workloads.

### Rich interface design

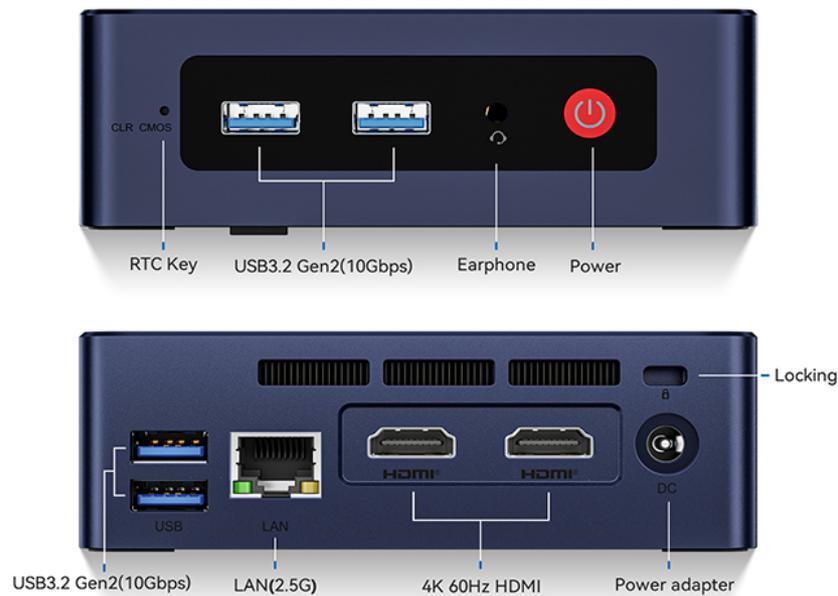


Image: Internal cooling system diagram.

## 8. TROUBLESHOOTING

If you encounter issues with your Beelink MINI S12 N95 Mini PC, refer to the following common solutions:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet if necessary.
- **No Display:** Verify that the HDMI cable is properly connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source. Try a different HDMI cable or monitor if possible.
- **System Unresponsive:** If the system freezes, press and hold the power button for 5-10 seconds to force a shutdown. Then restart the PC.
- **BIOS/Boot Issues:** If you need to reset BIOS settings, locate the CLR CMOS (RTC Key) button on the front panel. Consult the official Beelink website for specific instructions on using this feature.
- **Overheating:** Ensure the Mini PC is in a well-ventilated area and that its vents are not blocked. Reduce heavy workloads if temperatures are consistently high.
- **Operating System Issues:** If Windows is not booting correctly, you may need to use Windows recovery options or reinstall the operating system.

## 9. SPECIFICATIONS

Key technical specifications for the Beelink MINI S12 N95 Mini PC:

Feature	Specification
Processor	Intel N95 (4 Cores, 4 Threads, up to 3.4 GHz)
Graphics	Intel UHD Graphics
RAM	8GB DDR4 (SO-DIMM, 3200MHz)
Storage	256GB M.2 SATA3 SSD (Expandable up to 4TB)
Wireless Connectivity	WiFi5 (802.11ax), Bluetooth 4.2
LAN	2.5G Ethernet
Video Output	Dual HDMI (4K @ 60Hz)
USB Ports	USB 3.2 Gen2 (10Gbps)
Operating System	Windows 11 Home
Dimensions	Approximately 4.52 x 4.01 x 1.54 inches
Weight	Approximately 1.57 pounds

### Dual SSD High-speed Storage

Supports M.2 2280 NVMe/SATA3 SSD, Configurable to 4TB storage.

Mini S12 ships with a SATA3 SSD

**Optional:256/512GB**



PCIe3.0 x1 Slot  
(Not compatible with SATA3 SSDs)

PCIe3.0 x4 Slot  
(Compatible with SATA 3 SSDs.)

### The exploded view

See the technical structure assembly of various parts



Image: Intel N95 processor data comparison.

## 10. WARRANTY AND SUPPORT

Beelink provides comprehensive support for your Mini PC:

- **Warranty:** 1 Year Free Warranty.

- **Technical Support:** 7 Days/24 Hours Serving.
- **Certifications:** All products have obtained FCC, CE, and RoHS certification.

For any technical assistance, questions regarding system installation (e.g., Windows 10), or other inquiries, please contact Beelink customer service.