TRIGKEY KEY mini N150

TRIGKEY Key Mini N150 Mini PC User Manual

Model: KEY mini N150

1. INTRODUCTION

The TRIGKEY Key Mini N150 is a compact and efficient mini PC designed for various computing tasks, including office work, 4K video playback, web browsing, and educational use. It features an Intel Alder Lake N150 processor, DDR5 memory, and SSD storage, offering stable performance in a small form factor.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1 x TRIGKEY Mini PC
- 1 x Power Adapter
- 1 x HDMI Cable
- 1 x User Manual

Combination of Single-channel DDR5 & Dual PCIe 3.0 SSDs

Key mini features a SO-DIMM slot that supports up to **16GB DDR5 4800MHz** RAM, and dual PCIe SSD slots that can host up to 4TB of internal storage. The **PCIe 3.0x4** slot is also compatible with SATA III solid-state drives of the M.2 2280 format.

DDR5 4800MHz

M.2 PCIe 3.0 x1

M.2 PCIe 3.0 x4

This image displays the contents of the TRIGKEY Key Mini N150 package, including the mini PC unit, power adapter, HDMI cable, and the user manual.

3. PRODUCT OVERVIEW

3.1. External Features and Ports

The Key Mini N150 features a sleek and compact design, making it suitable for various environments. The front and rear panels provide essential connectivity options.

Wide Range of Interfaces

Rich interfaces meet all kinds of needs.

| 2.5G LAN | USB-C | HDMI | USB | 3.5mm Phone Jack |

Interfaces

1. Power Button
2. USB-C 10Gbps(Data)
3. USB3.2 10Gbps
4. 3.5mm Audio Jack
5. DC IN
6. HDMI 4K 60Hz
7. HDMI 4K 60Hz
8. USB3.2 10Gbps
9. CLR CMOS
10. USB3.2 10Gbps
11. USB3.2 10Gbps
12. LAN 2.5G

This image illustrates the front and rear interfaces of the mini PC. The front includes a power button, USB-C (data), and USB 3.2 ports. The rear panel features DC IN, two HDMI ports, multiple USB 3.2 ports, a 3.5mm audio jack, a CLR CMOS button, and a 2.5G LAN port.

3.2. Internal Components

The mini PC is equipped with an Intel Twin Lake N150 Processor, 16GB DDR5 4800MHz RAM, and a 500GB SSD. It supports dual M.2 PCIe 3.0 SSDs for expanded storage.

Combination of Single-channel DDR5 & Dual PCIe 3.0 SSDs

Key mini features a SO-DIMM slot that supports up to 16GB DDR5 4800MHz RAM, and dual PCIe SSD slots that can host up to 4TB of internal storage. The PCIe 3.0x4 slot is also compatible with SATA III solid-state drives of the M.2 2280 format.

DDR5 4800MHz   M.2 PCIe 3.0 x4   M.2 PCIe 3.0 x1

This image provides an internal view of the mini PC, highlighting the DDR5 SODIMM memory module and the two M.2 SSD slots, one M.2 PCIe 3.0 x4 and one M.2 PCIe 3.0 x1.

3.3. Cooling System

An innovative airflow design with a dust filter ensures stable operation and quiet performance by efficiently dissipating heat.

4800MHz

SO-DIMM DDR5 4800MHz Max 16GB

MAX 4TB

System disk : M.2 PCIe 3.0 x4

Storage : M.2 PCIe 3.0 x1

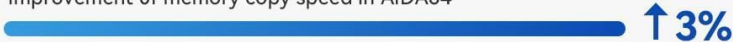# DDR5 4800MHz

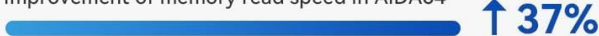The performance improvement of DDR5 4800MHz memory compared to DDR4 3200MHz

Improvement of memory write speed in AIDA64

↑6%

Improvement 0f memory copy speed in AIDA64

↑3%

Improvement of memory read speed in AIDA64

↑37%

*Test data from Beelink lab, and the actual performance may fluctuate due to environmental or configuration changes.
Test Configurations: Key mini (Intel® Twin Lake N150 Processor, 16GB DDR5 4800MHz RAM, 25℃ ambient temperature) compared
with Key N(Intel® Twin Lake N150 Processor, 16GB DDR4 3200MHz RAM, 25℃ ambient temperature)

*N150 CPUs support DDR4 memory of up to 3200MHz and DDR5 memory of up to 4800MHz. For more detailed informati-
on, please visit Intel's official website and search for the corresponding CPU.

https://www.intel.com

This image shows the underside of the mini PC, illustrating the new airflow design with a visible cooling fan and dust filter, designed for stable and quiet operation.

3.4. Product Video Overview

Your browser does not support the video tag.

This official TRIGKEY video provides a visual overview of the Key Mini N150, showcasing its compact design, internal components, and key features like the Intel Twin Lake N150 processor and DDR5 memory.

4. SETUP INSTRUCTIONS

4.1. Connecting Peripherals

1. **Connect Monitor(s):** Use the provided HDMI cable to connect your monitor(s) to the HDMI ports on the rear of the mini PC. The device supports dual 4K@60Hz displays.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB 3.2 ports.
3. **Connect to Network (Optional):** For a wired connection, plug an Ethernet cable into the 2.5G LAN port. For wireless, ensure your Wi-Fi network is available during initial setup.

4.2. Powering On

1. **Connect Power Adapter:** Plug the power adapter into the DC IN port on the rear of the mini PC, then connect it to a power outlet.
2. **Power On:** Press the power button located on the front panel of the mini PC. The power indicator light will illuminate.

4.3. Initial Operating System Setup

Upon first boot, the operating system (WOS) will guide you through the initial setup process. Follow the on-screen instructions to configure language, region, network, and user accounts.

5. OPERATING INSTRUCTIONS

5.1. Basic Operation

- **Power On/Off:** Press the power button to turn on the PC. To turn off, use the operating system's shutdown function. A short press of the power button can put the PC to sleep.
- **Restart:** Use the operating system's restart function.

5.2. Dual Display Setup

The Key Mini N150 supports connecting two monitors simultaneously via its two HDMI ports for extended desktop or mirrored display modes. Configure display settings within your operating system.

5.3. Network Connectivity

- **Wired (2.5G LAN):** Connect an Ethernet cable to the LAN port for high-speed internet access.
- **Wireless (Wi-Fi 6):** The integrated Intel AX101 Wi-Fi 6 module provides fast and stable wireless connectivity. Access Wi-Fi settings in your operating system to connect to available networks.
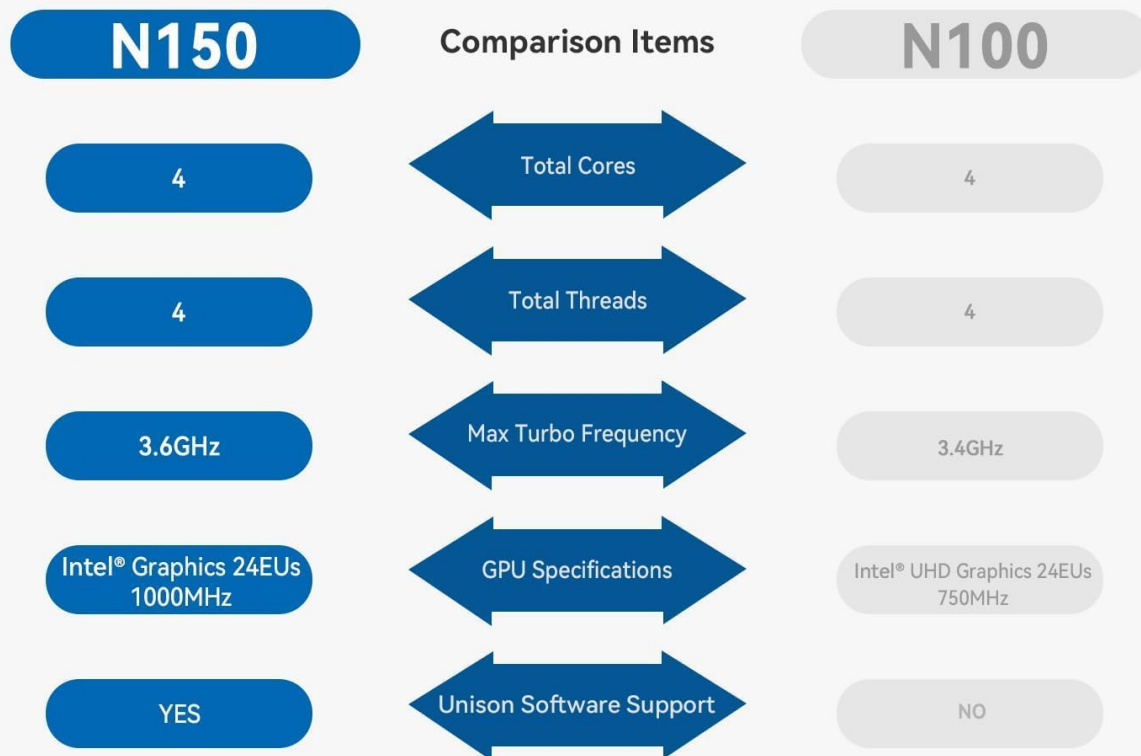
5.4. Bluetooth Devices

The mini PC includes Bluetooth 5.2 for connecting wireless peripherals such as keyboards, mice, headphones, and speakers. Pair devices through the Bluetooth settings in your operating system.

5.5. Intel Unison App Integration

Utilize the Intel Unison App to seamlessly connect your PC with mobile devices. This allows for features such as viewing photo galleries, transferring files, extending your PC screen to a tablet, making/receiving phone calls, and managing notifications.

Intel® Twin Lake N150/Intel® Alder Lake N100 Data Comparison

N150	Comparison Items	N100
4	Total Cores	4
4	Total Threads	4
3.6GHz	Max Turbo Frequency	3.4GHz
Intel® Graphics 24EUs 1000MHz	GPU Specifications	Intel® UHD Graphics 24EUs 750MHz
YES	Unison Software Support	NO

This image illustrates the capabilities of the Intel Unison App, enabling users to connect their PC and mobile devices for features like photo viewing, file transfer, screen extension, calls, and notifications.

6. SPECIFICATIONS

Feature	Specification
Processor	Intel Alder Lake N150 (4C/4T, up to 3.6GHz)
Graphics Coprocessor	Intel Graphics 24EUs 1000MHz
RAM	16GB DDR5 4800MHz
Storage	500GB SSD (supports dual M.2 PCIe 3.0 SSDs)
Max Screen Resolution	3840 x 2160 pixels (4K)
Display Output	2 x HDMI (Max 4K 60Hz)

Feature	Specification
Wireless Connectivity	WiFi 6 (Intel AX101), Bluetooth 5.2
LAN	2.5Gbps Ethernet
USB Ports	4 x USB 3.2 (10Gbps), 1 x USB-C (Data 10Gbps)
Audio Jack	1 x 3.5mm Audio Jack
Operating System	WOS
Item Weight	1.81 pounds
Dimensions	6.06 x 5.98 x 3.03 inches
Color	Black

7. MAINTENANCE

7.1. Cleaning

To maintain optimal performance and longevity, regularly clean the exterior of the mini PC with a soft, dry cloth. Ensure the ventilation openings are free from dust and obstructions. Do not use liquid cleaners directly on the device.

7.2. Storage Expansion

The Key Mini N150 supports dual M.2 PCIe 3.0 SSDs. To expand storage, you can install an additional M.2 2280 SSD in the available slot. Refer to the detailed instructions for opening the chassis and installing components if you are comfortable with hardware modifications. It is recommended to back up data before any hardware changes.

7.3. Software Updates

Regularly update your operating system and drivers to ensure system stability, security, and optimal performance. Check for updates through your operating system's settings.

8. TROUBLESHOOTING

8.1. No Power

- Ensure the power adapter is securely connected to both the mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Try a different power adapter if available and compatible.

8.2. No Display Output

- Check that the HDMI cable is securely connected to both the mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source (HDMI 1, HDMI 2, etc.).
- Test with a different HDMI cable or monitor if possible.

8.3. Network Connectivity Issues

- **Wired:** Check the Ethernet cable connection. Verify your router/modem is working correctly.
- **Wireless:** Ensure Wi-Fi is enabled in the operating system. Check if the correct Wi-Fi network is selected and the password is entered correctly. Restart your router/modem.

8.4. System Unresponsive / Boot Issues

- Perform a hard shutdown by pressing and holding the power button for 5-10 seconds. Then restart the PC.
- **CLR CMOS:** If experiencing persistent boot issues or BIOS configuration problems, locate the CLR CMOS button on the rear panel. With the PC powered off and disconnected from power, press this button (often requires a paperclip) to reset BIOS settings to default. Reconnect power and attempt to boot.

9. WARRANTY AND SUPPORT

TRIGKEY provides comprehensive support for its products:

- **Warranty:** 1-year worry-free warranty.
- **Technical Support:** Lifetime technical support.
- **Customer Service:** 24-hour customer service.

For any questions or assistance, please contact TRIGKEY customer service. Refer to the official TRIGKEY website for the most up-to-date contact information.