TRIGKEY KEY mini N150

TRIGKEY Key Mini N150 PC User Manual

Model: KEY mini N150

1. INTRODUCTION

The TRIGKEY Key Mini N150 PC is a compact and efficient mini-computer designed for various computing tasks. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device to ensure optimal performance and longevity.

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

Image: The TRIGKEY Key Mini N150 PC, demonstrating its small form factor.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x TRIGKEY Key Mini N150 Mini PC
- 1 x Power Adapter
- 1 x User Manual
- 1 x HDMI Cable (100cm)

Dual-Screen 4K Ultra HD Video Output

Dual HDMI ports, supporting up to 4K 60Hz displays.

4K hardware decoding
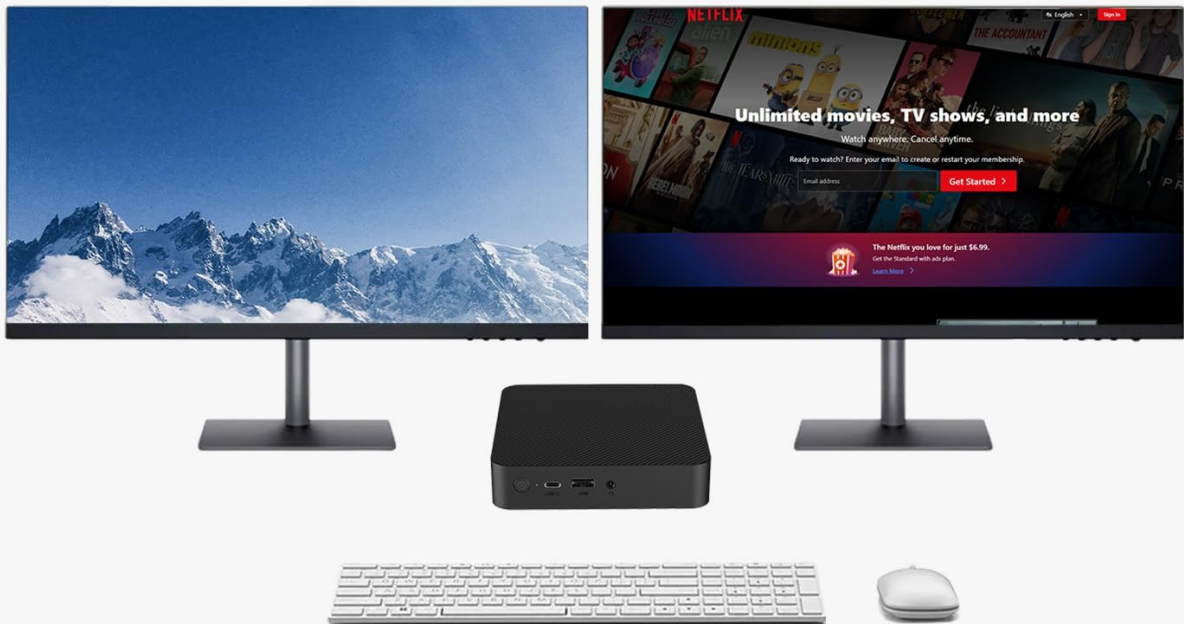
4K 60Hz

Dual-screen output.

Image: Included accessories with the Key Mini N150 PC.

3. PRODUCT OVERVIEW

The TRIGKEY Key Mini N150 PC features a comprehensive set of ports for versatile connectivity. Familiarize yourself with the layout for easy setup and operation.

Combination of Single-channel DDR5 & Dual PCle 3.0 SSDs

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

DDR5 4800MHz

M.2 PCle 3.0 x4

M.2 PCle 3.0 x1

Image: Front and Rear Panel Interfaces.

Front Panel:

- **Power Button:** To turn the device on/off.
- **USB-C (Data 10Gbps):** For data transfer.
- **USB 3.2 (10Gbps) x2:** High-speed USB ports.
- **3.5mm Audio Jack:** For headphones or speakers.

Rear Panel:

- **DC IN:** Power input port.
- **HDMI 4K 60Hz x2:** For connecting displays.
- **USB 3.2 (10Gbps) x2:** High-speed USB ports.
- **LAN 2.5G:** Ethernet port for wired network connection.
- **CLR CMOS:** Button to clear CMOS settings.

4. SETUP GUIDE

Follow these steps to set up your TRIGKEY Key Mini N150 PC:

1. **Connect to Display:** Use the provided HDMI cable to connect the mini PC to your monitor or TV. The device supports dual 4K 60Hz displays.

2. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB 3.2 ports.

3. **Network Connection:** For a wired connection, connect an Ethernet cable to the 2.5G LAN port. For wireless, ensure your Wi-Fi network is available after initial boot.

4. **Power On:** Connect the power adapter to the DC IN 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.

Highlights

Sleek and Compact Design

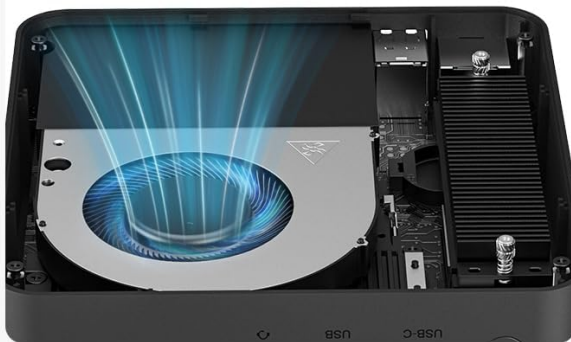126*126*28mm(Without Rubber Feet)

Whisper-quiet

Subtle sound can only be heard up close

34dB

Innovative Airflow Design

Bottom air intake for enhanced cooling efficiency

Dust-proof Design

Keeping dust out of the mini PC ensuring issue-free operation.

DDR5 SODIMM

DDR5 SODIMM

TDP up to 20W

Ensuring steady operation without compromising on quietness.

20W

Image: Dual-screen 4K Ultra HD video output setup.

5. OPERATING INSTRUCTIONS

Upon first boot, the system will guide you through the operating system setup. The Key Mini N150 PC is designed for quiet operation, featuring a low-speed fan that ensures efficient cooling without excessive noise.

Key Features:

- **Processor:** Intel Twin Lake N150 (4 Cores / 4 Threads, up to 3.6GHz).
- **Graphics:** Intel Graphics with 24 EUs at 1000 MHz, supporting 4K 60Hz dual display.
- **Memory:** 16GB DDR5 4800MHz RAM.
- **Storage:** 500GB M.2 2280 PCIe SSD.
- **Connectivity:** WiFi 6 (Intel AX101), Bluetooth 5.2, 2.5G LAN.

Image: Design and performance highlights.

6. Storage and Memory Expansion

The Key Mini N150 PC comes equipped with 16GB DDR5 4800MHz RAM and a 500GB M.2 2280 SSD. The system supports dual M.2 2280 PCIe SSDs, allowing for internal storage upgrades up to 4TB. The PCIe 3.0x4 slot is also compatible with SATA III solid-state drives in the M.2 2280 format.

4800MHz

SO-DIMM DDR5 4800MHz Max 16GB

MAX 4TB

System disk : M.2 PCIe 3.0 x4
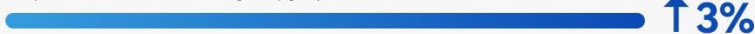Storage : M.2 PCIe 3.0 x1

DDR5 4800MHz

The performance improvement of DDR5 4800MHz memory compared to DDR4 3200MHz
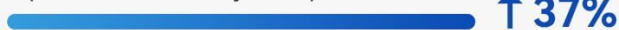
Improvement of memory write speed in AIDA64
↑6%

Improvement 0f memory copy speed in AIDA64
↑3%

Improvement of memory read speed in AIDA64
↑37%

*Test data from Trigkey 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 information, please visit Intel's official website and search for the corresponding CPU.

https://www.intel.com

Image: Internal layout showing DDR5 RAM and dual M.2 SSD slots.

Image: DDR5 4800MHz performance comparison.

7. MAINTENANCE

To ensure the longevity and optimal performance of your mini PC, consider the following maintenance tips:

- **Dust Prevention:** The device features a dust-proof design. Regularly clean the exterior with a soft, dry cloth. Avoid blocking the bottom air intake to maintain efficient cooling.
- **Ventilation:** Ensure the mini PC is placed in a well-ventilated area to prevent overheating. Do not cover the ventilation openings.
- **Software Updates:** Keep your operating system and drivers updated to benefit from performance improvements and security patches.
- **Power Management:** Use the provided power adapter. Avoid frequent power interruptions.

8. TROUBLESHOOTING

If you encounter issues with your TRIGKEY Key Mini N150 PC, try the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the PC and a working power outlet. Try a different outlet if necessary.
- **No Display:** Verify that the HDMI cable is firmly connected to both the PC and the monitor. Check if the monitor is set to the correct input source.
- **Peripheral Issues:** If a keyboard, mouse, or other USB device is not working, try connecting it to a different USB port. Ensure drivers are installed if required.
- **Network Problems:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure the Wi-Fi adapter is enabled and connected to the correct network.
- **System Unresponsive:** If the system freezes, press and hold the power button for 5-10 seconds to force a shutdown, then restart the PC.
- **Clear CMOS:** If experiencing boot issues, use the CLR CMOS button on the rear panel to reset BIOS settings to default.

For persistent issues, please refer to the Warranty and Support section for contact information.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	Intel Twin Lake N150 (4 Cores / 4 Threads, up to 3.6GHz)
Graphics	Intel Graphics 24EUs 1000MHz, Integrated
RAM	16GB DDR5 4800MHz
Storage	500GB M.2 2280 PCIe SSD (Supports dual M.2 2280 PCIe SSDs up to 4TB)

Feature	Specification
Operating System	OS (Pre-installed)
Wireless Connectivity	WiFi 6 (Intel AX101), Bluetooth 5.2
Wired Connectivity	2.5G LAN
Video Output	2x HDMI 4K 60Hz (Dual Display Support)
USB Ports	4x USB 3.2 (10Gbps), 1x USB-C (Data 10Gbps)
Audio	1x 3.5mm Audio Jack
Dimensions (LxWxH)	5.28 x 2.24 x 8.35 inches
Weight	10.4 ounces

10. WARRANTY AND SUPPORT

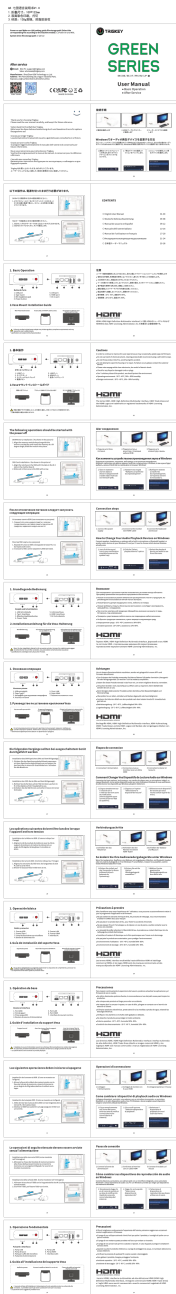TRIGKEY provides comprehensive support for its products:

- **Warranty:** One-year warranty for replacement.
- **Technical Support:** Lifetime technical support.
- **Customer Service:** 7*24 hours one-to-one service with quick replies within 24 hours.
- **Returns:** 30 days no reason to return.

Image: TRIGKEY customer service commitments.

For assistance, please contact TRIGKEY customer support through the official website or your purchase platform.

Related Documents - KEY mini N150

[TRIGKEY Green G5 Mini PC User Manual](#)

User manual for the TRIGKEY Green G5 Mini PC featuring Intel 12th Gen Alder Lake-N100 CPU, 16GB DDR5 RAM, 500GB NVMe SSD, Dual 2.5G LAN, Wi-Fi 6, and Bluetooth 5.2.

[TRIGKEY S3 USB Flash Drive User Manual - 2A4J2-S3](#)

Official user manual for the TRIGKEY S3 USB flash drive (model 2A4J2-S3) by ShenZhen AZW Technology CO.,LTD. Provides product details and usage information.

[TRIGKEY G2 GREEN Mini PC User Manual - Setup, Operation, and Support](#)

Comprehensive user manual for the TRIGKEY G2 GREEN Mini PC, covering basic operation, VESA mount installation, component installation (RAM, SSD), connection steps, audio device configuration, troubleshooting, and after-service information.

[TRIGKEY Green G5 Mini PC User Manual](#)

User manual for the TRIGKEY Green G5 Mini PC featuring Intel 12th Gen Alder Lake-N100 CPU, 16GB DDR5 RAM, 500GB NVMe SSD, Dual 2.5G LAN, Wi-Fi 6, and Bluetooth 5.2.

	Azulle ACCESS User Manual: Specifications, Installation, and Applications User manual for the Azulle ACCESS device, covering what's in the box, installation instructions, detailed product specifications, port layout, potential applications like Kiosks and Digital Signage, and contact information.
	GMKtec NUCBOX7/7S User Manual User manual for the GMKtec NUCBOX7 and NUCBOX7S mini PCs, detailing specifications, safety precautions, connection steps, and after-sales support.