

TRIGKEY G4

TRIGKEY G4 Mini PC User Manual

Model: G4

1. PRODUCT OVERVIEW

The TRIGKEY G4 Mini PC is a compact and efficient desktop computer designed for various applications, including office work, home entertainment, and educational tasks. It features a 12th Generation Intel Alder Lake-N N95 Processor, 16GB DDR4 RAM, and a 500GB M.2 SSD, offering reliable performance in a small form factor. This manual provides detailed instructions for setting up, operating, and maintaining your TRIGKEY G4 Mini PC.



Figure 1: Front view of the TRIGKEY G4 Mini PC, showcasing its compact design and front ports.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- TRIGKEY G4 Mini PC
- Power Adapter (Input: 100-240V AC, 50/60Hz; Output: 12V 3A)
- HDMI Cable (100CM)
- Wall-Mounted Bracket
- Instruction Manual (this document)
- Pack of Screws

3. HARDWARE FEATURES

3.1 Front Panel

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Figure 2: Diagram illustrating the front and rear ports of the TRIGKEY G4 Mini PC.

- **CLR CMOS Button:** Used to clear CMOS settings.
- **USB3.2 Gen2 (10Gbps) Ports (x2):** For connecting high-speed USB devices.
- **Earphone Jack (3.5mm):** For audio output to headphones or speakers.
- **Power Indicator Light:** Indicates the power status of the device.
- **Power Button:** To power on/off the Mini PC.

3.2 Rear Panel

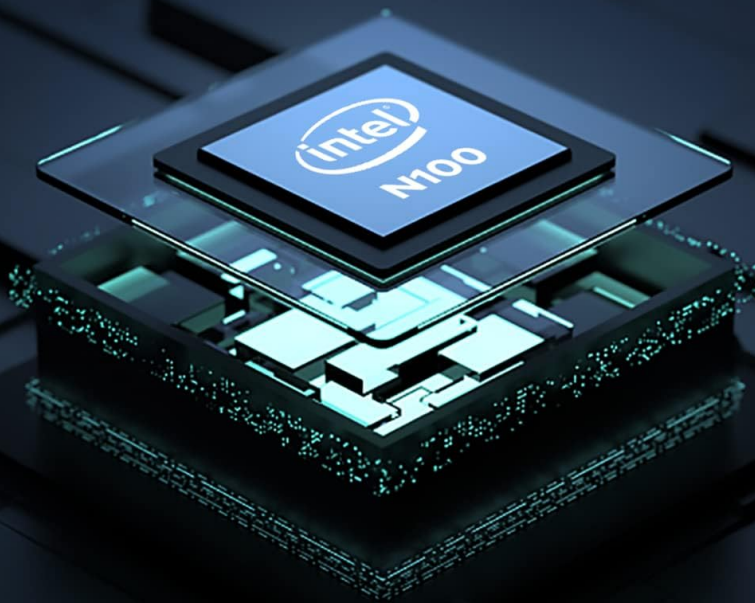
- **Locking Slot:** For security cable locks.
- **DC Power Input:** Connect the provided power adapter here.
- **HDMI 2.0 Ports (x2):** Supports 4K@60Hz output for dual display setup.
- **LAN (1000M) Port:** For wired network connection.
- **USB3.2 Gen2 (10Gbps) Ports (x2):** For connecting high-speed USB devices.

3.3 Internal Components

Intel® Alder Lake-N N100 Processor

Processor Base Frequency:0.8GHz/Max Turbo Frequency:3.40GHz

Intel N100  ↑ 25%
Intel N5105 



3.40GHz

Max Turbo Frequency
TDP(Max Turbo Frequency):25W

4Cores

Total Cores
Intel® UHD Graphics(24EUs)

4Threads

Lithography: Intel 7
6 MB L3 Smart Cache

Figure 3: Internal view of the TRIGKEY G4 Mini PC, highlighting the CPU, RAM, and SSD components.

- **CPU:** Intel Alder Lake-N N95 Processor (4C/4T, up to 3.4 GHz).
- **RAM:** 16GB DDR4 SO-DIMM (expandable up to 16GB, single channel).
- **Storage:** 500GB M.2 2280 SSD (supports up to 2TB M.2 SATA3 2280 SSD or 2.5-inch SATA3 HDD).
- **Cooling System:** Features a large silent CPU fan and copper heat sink for efficient heat dissipation.

VIDEO OVERVIEW

Watch this video for a visual overview of the TRIGKEY G4 Mini PC's features and capabilities.



Video 1: A 56-second video showcasing the TRIGKEY G4 Mini PC, its compact size, internal components like the Intel N100 processor, SSD, RAM, cooling system, and various ports, as well as its Wi-Fi 6 capabilities and dual HDMI display support.

4. SETUP GUIDE

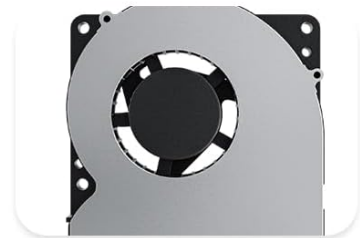
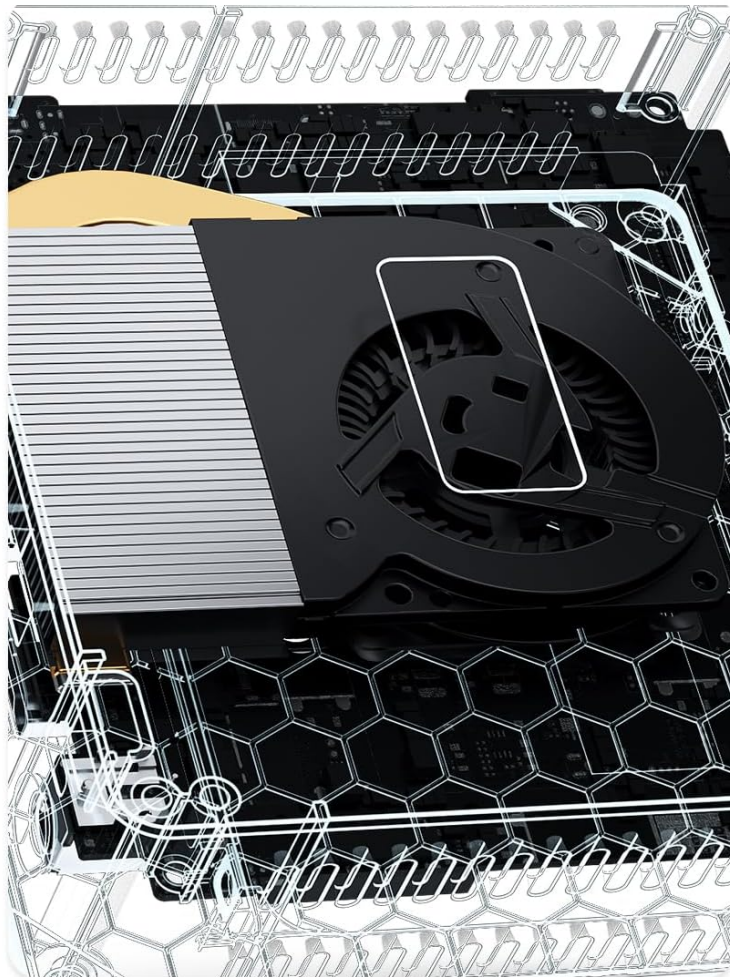
Follow these steps to set up your TRIGKEY G4 Mini PC:

1. **Connect to a Display:** Connect one or two monitors to the HDMI 2.0 ports on the rear panel using the provided HDMI cable(s).
2. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB3.2 ports on the front or rear panel.
3. **Network Connection:** For a wired connection, connect an Ethernet cable to the LAN port. For wireless, ensure your Wi-Fi network is available during initial setup.
4. **Power On:** Connect the power adapter to the DC power input port on the rear panel, then plug the adapter into a power outlet. Press the power button on the front panel to turn on the Mini PC.
5. **Initial OS Setup:** The Mini PC comes pre-installed with OS 11 Pro. Follow the on-screen instructions to complete the initial operating system setup, including language, region, and network configuration.

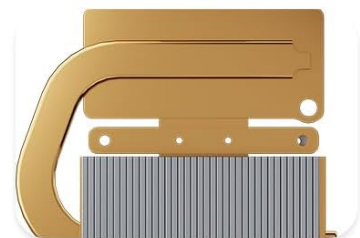
Quiet large fan + Heat sink



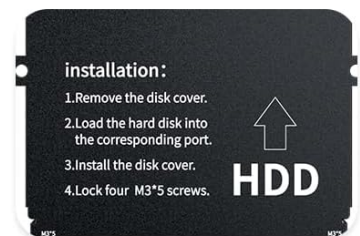
Efficient heat dissipation



Cooling fan



Heat sink



hard drive cooler

Figure 4: The Mini PC connected to a monitor, keyboard, and mouse, ready for use.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Power On:** Press the power button on the front panel.

- **To Shut Down:** Click the Start button in OS 11 Pro, then select Power > Shut down. Alternatively, press and hold the power button for 4-6 seconds.
- **To Restart:** Click the Start button, then select Power > Restart.

5.2 Dual Display Setup

The TRIGKEY G4 supports dual 4K@60Hz displays via its two HDMI 2.0 ports. Connect two monitors to the HDMI ports. Once connected, OS 11 Pro will automatically detect the displays. You can configure display settings (extend, duplicate, or second screen only) via **Settings > System > Display**.

4K 60Hz video support



Support 4K high-definition output, the resolution is **four times** that of 1080P



Figure 5: Illustration of the Mini PC connected to two monitors for a dual-screen setup.

5.3 Network Connectivity

- **Wired (LAN):** Connect an Ethernet cable to the 1000M LAN port for a stable internet connection.
- **Wireless (Wi-Fi):** The Mini PC supports 802.11 b/g/n/ac (Wi-Fi 5) and 2.4+5G WIFI. To connect, go to **Settings > Network & Internet > Wi-Fi**, select your network, and enter the password.
- **Bluetooth:** Integrated Bluetooth 4.0 allows connection to wireless peripherals like keyboards, mice, and headphones. Access Bluetooth settings via **Settings > Bluetooth & devices**.

5.4 Storage Expansion

The TRIGKEY G4 Mini PC allows for storage expansion:

- **M.2 SSD:** The existing 500GB M.2 2280 SSD can be upgraded to a maximum of 2TB M.2 SATA3 2280 SSD.
- **2.5-inch HDD/SSD:** An internal bay supports a 2.5-inch SATA3 HDD or SSD (up to 2TB, not included).

SO-DIMM DDR4



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

*Official speeds apply



OPTIONAL **16 GB 3200MHz DDR4**

Frequency : **Max 16GB 3200MHz DDR4**

Figure 6: Close-up view of the M.2 SSD slot inside the Mini PC.

Stable and reliable performance, high speed , no lag.

Supports M.2 2280 NVMe/SATA3 SSD, Configurable to **2TB** storage.
Standard **500GB** PCIe SSD.NVMe up to **800MB/S**, SATA3 up to **500MB/s**



Figure 7: Diagram showing the 2.5-inch HDD/SSD bay and its installation process.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mini PC:

- **Keep Clean:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Avoid using liquid cleaners directly on the device.
- **Ventilation:** Ensure the ventilation holes are not obstructed to prevent overheating. The internal fan and heat sink are designed for efficient heat dissipation.
- **Software Updates:** Keep your operating system and drivers updated to ensure security and performance.
- **Safe Shutdown:** Always shut down the Mini PC properly through the operating system to prevent data corruption.
- **Storage Management:** Periodically check your storage usage and remove unnecessary files to maintain system speed.

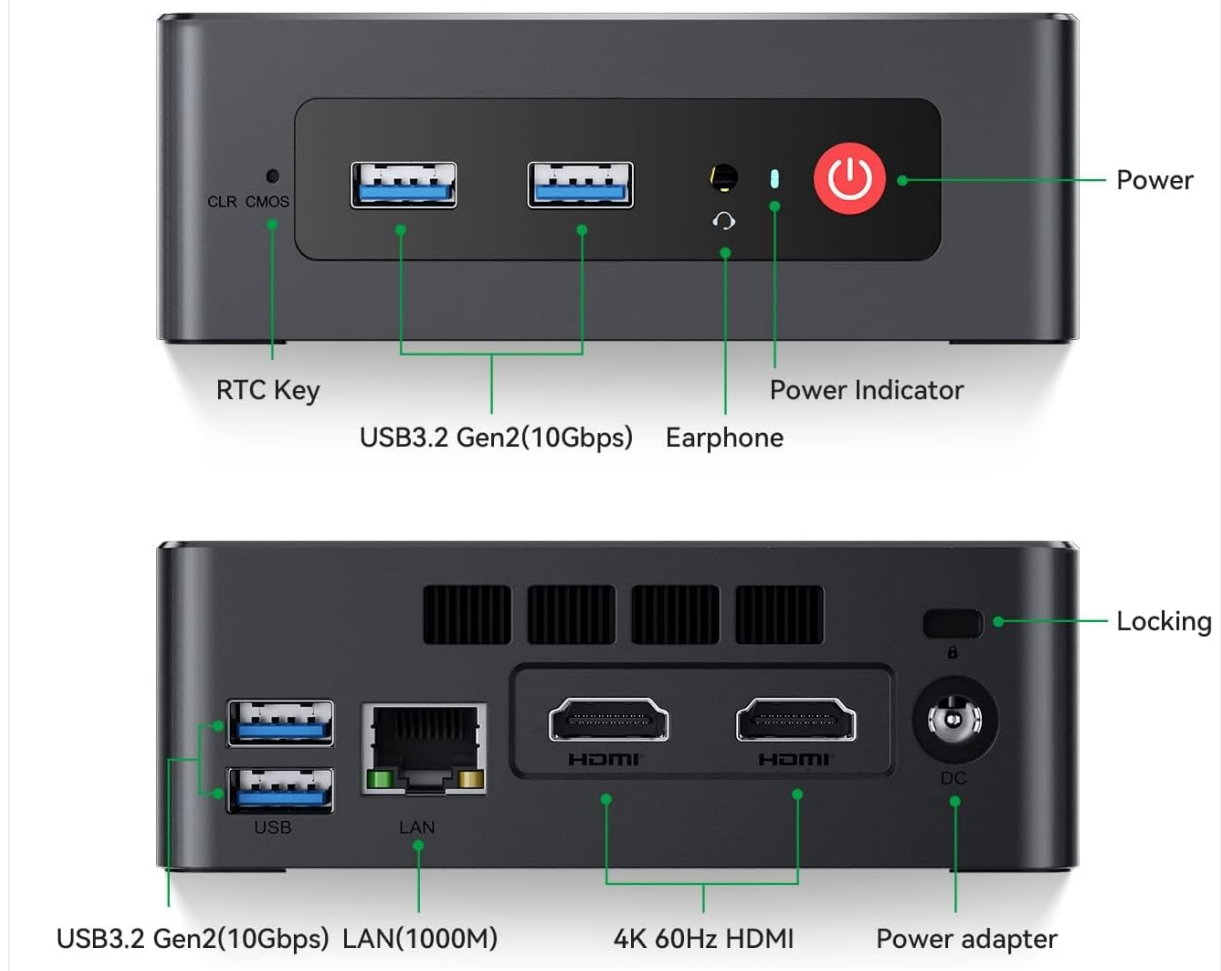


Figure 8: Exploded view of the cooling fan and heat sink components, emphasizing efficient heat dissipation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Does not turn on	Power adapter not connected or faulty; Power outlet issue.	Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet.
No display on monitor	HDMI cable loose or faulty; Incorrect input source on monitor.	Check HDMI cable connections. Ensure the monitor is set to the correct HDMI input source. Try a different HDMI cable or monitor.
Wi-Fi connection issues	Incorrect Wi-Fi password; Router issues; Driver problems.	Verify Wi-Fi password. Restart your router. Check for updated Wi-Fi drivers in Device Manager.
Slow performance	Too many applications running; Low storage space; Overheating.	Close unnecessary applications. Free up disk space. Ensure proper ventilation and clean dust from vents.

Problem	Possible Cause	Solution
Cannot clear CMOS	Incorrect procedure.	With the Mini PC powered off and disconnected from power, press and hold the CLR CMOS button for 5-10 seconds. Reconnect power and restart.

8. SPECIFICATIONS

Feature	Detail
Model	TRIGKEY G4
Processor	12th Gen Intel Alder Lake-N N95 (4C/4T, 6M Smart Cache, up to 3.4 GHz)
Graphics	Intel UHD Graphics (supports 4K@60Hz)
RAM	16GB DDR4 SO-DIMM (Max 16GB 3200MHz)
Storage	500GB M.2 2280 SSD (expandable up to 2TB M.2 SATA3 2280 SSD or 2.5-inch SATA3 HDD)
Operating System	OS 11 Pro (pre-installed) / Linux-Ubuntu support
Wireless Connectivity	Wi-Fi 5 (802.11 b/g/n/ac, 2.4+5G WIFI), Bluetooth 4.0
Ports	4x USB3.2 Type-A (10 Gbps) 2x HDMI 2.0 (4K@60Hz) 1x 1000 Mbps LAN 1x 3.5mm Audio Jack 1x DC Power Input 1x CLR CMOS Button 1x Locking Slot
Dimensions	Approximately 4.52 x 4.01 x 1.61 inches (115 x 102 x 41 mm)
Weight	Approximately 1.5 pounds
Work Environment	-10°C to 45°C, 30% to 90% Humidity
Storage Environment	-20°C to 60°C, 10% to 90% Humidity

9. WARRANTY AND SUPPORT

TRIGKEY provides comprehensive support for its products:

- **Warranty:** 12 months replacement available.
- **Returns:** 30 days no reason to return.
- **Technical Support:** Lifetime after-sales service and technical support.
- **Contact:** For any questions regarding the operating system, installation, or other issues, please contact TRIGKEY customer support through Amazon or visit the official TRIGKEY website.



Easy for you
Online Learning

Figure 9: TRIGKEY customer support details, including response times and warranty periods.

Related Documents - G4

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	<p>TRIGKEY Green G5 Mini PC User Manual</p> <p>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.</p>
	<p>TRIGKEY G2 GREEN Mini PC User Manual - Setup, Operation, and Support</p> <p>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.</p>
	<p>TRIGKEY S3 USB Flash Drive User Manual - 2A4J2-S3</p> <p>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.</p>
	<p>How to Create a Bootable Windows 10 USB and Install Windows</p> <p>A comprehensive guide on creating a bootable Windows 10 USB drive using Microsoft's Media Creation Tool and performing a clean installation on a PC, including boot selection and drive management.</p>



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3. Open Firewall system
 - Firewall rule(s) added: zone: Intranet, 2, 2003, 1, 10, "Open 8, 2, 2003, 1, 10", "C:\Program Files\Internet Explorer\iexplore.exe", 127.0.0.1
 - Firewall rule(s) deleted: zone: Intranet, 2, 2003, 1, 10, "Open 8, 2, 2003, 1, 10", "C:\Program Files\Internet Explorer\iexplore.exe", 127.0.0.1
4. Open handle
5. 2 of 24 system handles

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Detailed specifications and supported components for the HP Z4 G4 Workstation, featuring Intel Xeon W and Core X-series processors, comprehensive connectivity, and expandability options for professional workloads.

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