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## GMKtec G3 PRO

# GMKtec G3 PRO Mini PC User Manual

Model: G3 PRO

## INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your GMKtec G3 PRO Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your user experience.

The GMKtec G3 PRO is a compact desktop computer featuring an Intel Core i3-10110U processor, 16GB DDR4 RAM, and a 512GB PCIe M.2 SSD. It supports 4K dual HDMI output, WiFi 6, Bluetooth 5.2, and 2.5GbE network connectivity, making it suitable for office, business, and everyday computing tasks.

## WHAT'S IN THE BOX

Verify that all items listed below are included in your package:

- GMKtec Nucbox G3 PRO Mini PC Intel 16GB RAM 512GB Hard Drive
- Power Supply & Cable
- VESA Mount with Screws
- HDMI Cable
- User Manual (this document)

## Retail Boxed Packaging

1. Nucbox G3 Pro Mini PC
2. Power Adapter & Cable
3. User Manual
4. HDMI Cable
5. VESA Mount with Screws



Image: Contents of the GMKtec G3 PRO Mini PC retail box, including the mini PC, power adapter, HDMI cable, VESA mount, and user manual.

## PRODUCT FEATURES

- **Processor:** Intel Core i3-10110U with a peak boost clock of 4.1 GHz, offering strong single-core performance and Hyper-Threading for multi-threaded tasks.
- **Memory & Storage:** 16GB DDR4 RAM (dual channel) and a 512GB M.2 2242 SATA SSD. Supports secondary expansion via an M.2 2280 NVMe PCIe slot.
- **Connectivity:**
  - 4x USB 3.2 ports (up to 5Gbps/S)
  - 2x HDMI 2.0 ports (4K@60Hz) for dual-screen display
  - 1x 3.5mm Audio Jack
  - WiFi 6 (802.11ax) for speeds up to 600Mbps
  - Bluetooth 5.2 for wireless device connections
  - 1x Gigabit Ethernet RJ45 2.5GbE port
- **Graphics:** Upgraded Intel Graphics (max 1000MHz) supporting 4K video playback and AV1 decoding.
- **Cooling:** Upgraded cooling fan and thermal paste for reduced noise and improved thermal management.
- **Operating System:** Pre-installed with Windows 11 Pro.
- **Additional Functions:** Supports Wake On LAN, PXE Boot, RTC Wake, and Auto Power On.

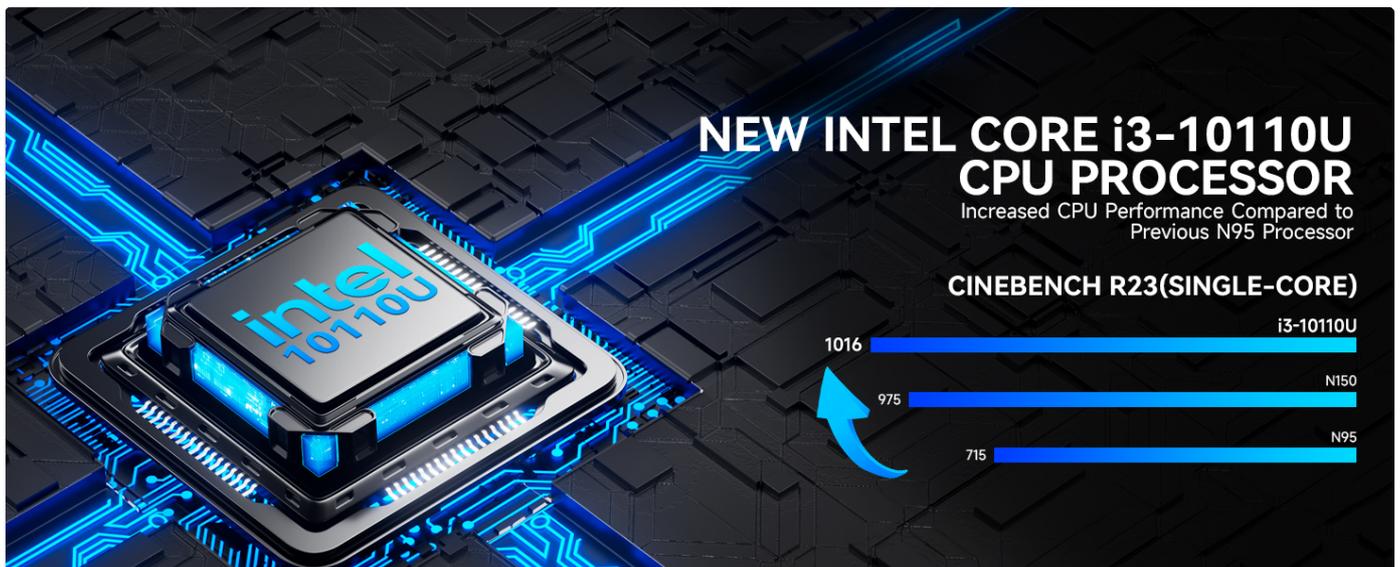


Image: Diagram illustrating the Intel Core i3-10110U CPU processor, highlighting its 2 Cores/4 Threads, 4MB Cache, and 4.1GHz speed.



Image: Overview of the mini PC's features including dual SSD slots, dual DDR4 support, 4K dual-screen output, Wi-Fi 6, and Bluetooth 5.2.

## SETUP GUIDE

### 1. Connecting Peripherals

Connect your monitor(s), keyboard, mouse, and other USB devices to the available ports on the mini PC.

- **Monitors:** Use the two HDMI ports to connect up to two displays for a dual-screen setup.
- **USB Devices:** Connect your keyboard, mouse, and other USB peripherals to the USB 3.2 ports.
- **Audio:** Connect speakers or headphones to the 3.5mm audio jack.
- **Network:** For a wired connection, connect an Ethernet cable to the 2.5GbE RJ45 port. For wireless, ensure your WiFi network is available.

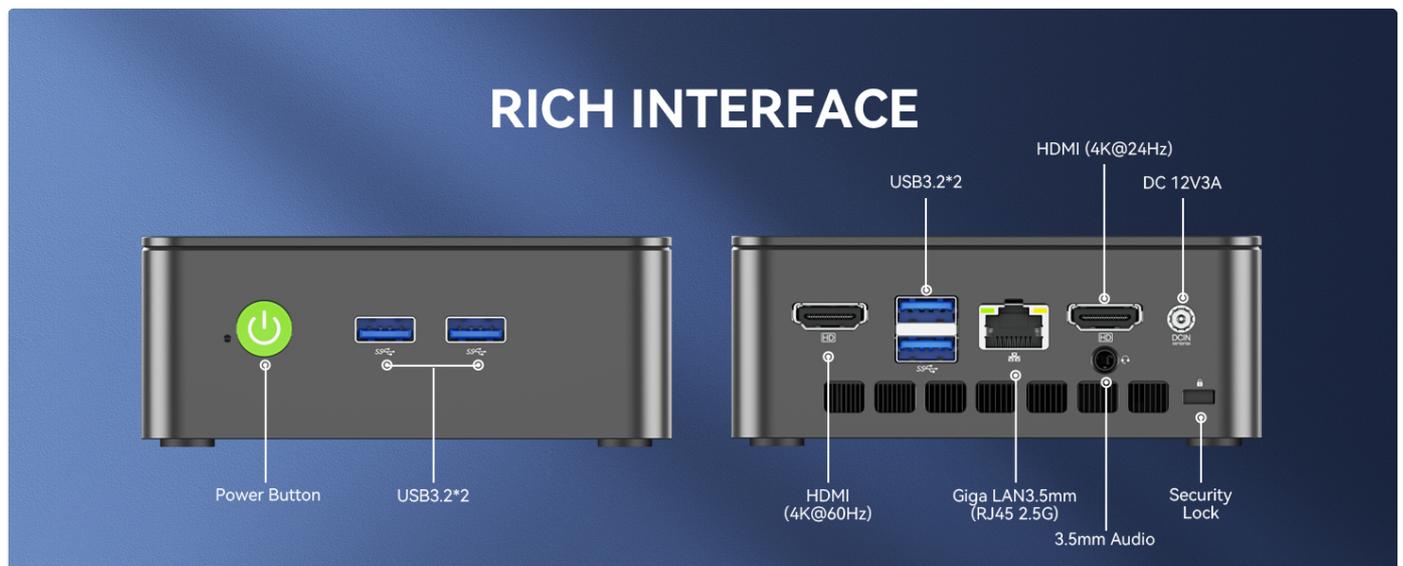


Image: Detailed view of the GMKtec G3 PRO Mini PC's front and rear interfaces, including power button, USB 3.2 ports, HDMI ports, 2.5G LAN, and audio jack.

### 2. Power Connection

Connect the power adapter to the DC 12V 3A port on the mini PC, then plug the power cable into an electrical outlet.

### 3. VESA Mount Installation (Optional)

The GMKtec G3 PRO supports VESA mounting, allowing you to attach it to the back of a compatible monitor or to a wall mount for a clutter-free workspace.

1. Attach the VESA mount bracket to the back of your monitor or desired surface using the provided screws.
2. Slide the mini PC onto the mounted bracket until it clicks securely into place.



Image: Demonstrates both desktop placement and VESA installation options for the GMKtec G3 PRO Mini PC, highlighting its compact size.

## OPERATING INSTRUCTIONS

### 1. Powering On/Off

- **To Power On:** Press the power button located on the front of the mini PC. The power indicator light will illuminate.
- **To Power Off:** From the operating system, select "Shut down." Alternatively, press and hold the power button for 5-7 seconds to force a shutdown (use only when necessary).

### 2. Dual Screen Display

The G3 PRO supports dual 4K@60Hz displays via its two HDMI 2.0 ports. Once connected, Windows will automatically detect the displays. You can configure display settings (extend, duplicate, etc.) through the operating system's display settings.



Image: A setup showing the GMKtec G3 PRO Mini PC connected to two monitors, demonstrating its dual-screen display capability for

enhanced productivity.

### 3. Adjusting Performance Modes

The mini PC offers adjustable performance modes to suit different usage scenarios. These modes can be accessed and changed via the BIOS settings.

1. Restart the mini PC.
2. During startup, repeatedly press the **Esc** key to enter the BIOS page.
3. Navigate to the BIOS Setup and locate the option for performance modes.
4. Select from available modes such as **Quiet Mode**, **Normal Mode (Default)**, or **Performance Mode**.
5. Save changes and exit BIOS to apply the new setting.



Image: Illustrates the three performance modes (Quiet, Normal, Performance) and shows how to access the BIOS setup by pressing the Esc key.

## MAINTENANCE

### 1. Cleaning

- Regularly clean the exterior of the mini PC with a soft, dry cloth.
- Use compressed air to gently clear dust from the ventilation openings to ensure proper airflow and cooling.
- Avoid using liquid cleaners directly on the device.

### 2. Storage Expansion

The GMKtec G3 PRO supports storage expansion. It has a secondary M.2 2280 NVMe PCIe slot for additional storage.

1. Ensure the mini PC is powered off and disconnected from the power source.
2. Carefully open the casing according to the instructions provided in the full user manual (if applicable).
3. Install the M.2 2280 NVMe SSD into the designated slot.
4. Secure the SSD and reassemble the casing.

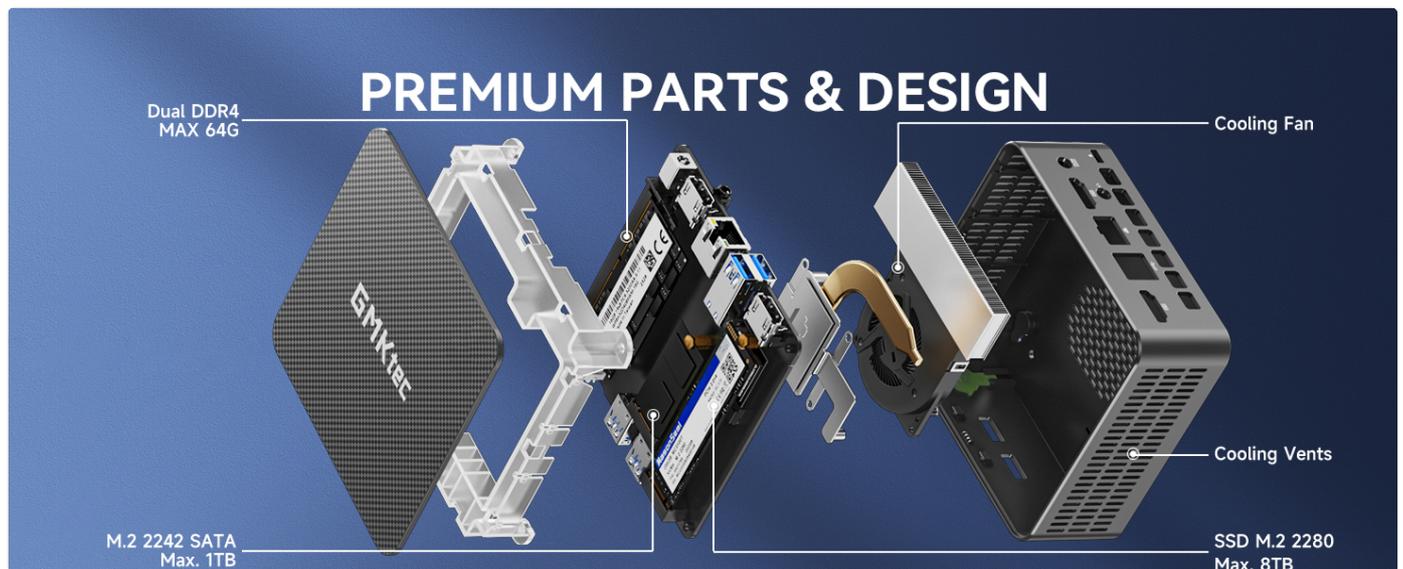


Image: An exploded view of the GMKtec G3 PRO Mini PC, showing its internal components including the cooling fan, DDR4 slots, M.2 2242 SATA, and M.2 2280 SSD slots.

### 3. Cooling System

The G3 PRO features an upgraded cooling fan designed for quiet operation. To maintain optimal performance and longevity, ensure the ventilation areas are not obstructed.



Image: Depicts the GMKtec G3 PRO Mini PC's smart quiet cooling fan, emphasizing its ultra-quiet operation (below 38dB) for a sleep-friendly and focused work environment.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected, faulty power adapter, power outlet issue.	Ensure power cable is securely connected. Test power adapter with another device or try a different outlet.
No display on monitor	HDMI cable loose or faulty, incorrect input selected on monitor, monitor issue.	Check HDMI cable connections. Ensure monitor is set to the correct input source. Test with a different monitor or cable.
No internet connection (wired)	Ethernet cable loose or faulty, router/modem issue, network driver issue.	Check Ethernet cable connection. Restart router/modem. Verify network drivers are installed and updated.
No internet connection (wireless)	WiFi disabled, incorrect password, router/modem issue, WiFi driver issue.	Ensure WiFi is enabled in Windows settings. Re-enter WiFi password. Restart router/modem. Verify WiFi drivers are installed and updated.
System slow or unresponsive	Too many applications running, low disk space, overheating, malware.	Close unnecessary applications. Free up disk space. Ensure proper ventilation. Run antivirus scan. Consider adjusting performance mode in BIOS.

## SPECIFICATIONS

Feature	Detail
Model	G3 PRO
Processor	Intel Core i3-10110U (4.1 GHz max boost)

Feature	Detail
Cores/Threads	2 Cores / 4 Threads
RAM	16GB DDR4 SO-DIMM (Dual Channel, 2666 MHz)
Storage	512GB M.2 2242 SATA SSD (Primary), M.2 2280 NVMe PCIe slot (Secondary)
Graphics	Intel Graphics (max 1000MHz), Integrated
Video Output	2x HDMI 2.0 (4K@60Hz)
USB Ports	4x USB 3.2 (up to 5Gbps/S)
Audio	3.5mm Audio Jack
Network	WiFi 6 (802.11ax), Bluetooth 5.2, 2.5GbE RJ45 LAN
Operating System	Windows 11 Pro
Dimensions	6.42 x 6.18 x 4.09 inches (Package)
Weight	2.09 pounds
Color	Asphalt Grey

## WARRANTY AND SUPPORT

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GMKtec offers a **1-year limited warranty** for each mini PC, effective from the date of purchase. This warranty covers defects due to design and workmanship.

For technical assistance, troubleshooting, or warranty claims, please contact GMKtec customer support. Refer to the official GMKtec website or the contact information provided with your purchase for the most up-to-date support channels.

*Note: Keep your proof of purchase for warranty validation.*