

## GMKtec G3 PLUS

# GMKtec G3 Plus Mini PC User Manual

Model: G3 PLUS | Brand: GMKtec

## 1. INTRODUCTION

The GMKtec G3 Plus Mini PC is a compact and powerful desktop computer designed for various applications, from routine tasks and office work to home entertainment and server use. Featuring the latest Intel Twin Lake N150 processor, 16GB DDR4 RAM, and a 512GB PCIe 3.0 M.2 2280 NVMe SSD, it offers efficient performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your GMKtec G3 Plus Mini PC.

## 2. WHAT'S IN THE BOX

- GMKtec Nucbox G3 Plus Mini PC 16GB RAM 512GB
- VESA Mount with Screws
- HDMI Cable
- Power Adapter
- User Manual

# RETAIL BOXED PACKAGING

1.Nucbox G3 Mini PC

4.HDMI Cable

2.Power Adapter & Cable

5.VESA Mount with Screws

3.User Manual



Figure 2.1: Retail Boxed Packaging showing the Mini PC, VESA mount, HDMI cable, power adapter, and user manual.

## 3. PRODUCT FEATURES

### 3.1. High-Performance Processor

The G3 Plus Mini PC is equipped with the 2025 Intel Twin Lake N150 CPU, featuring 4 cores and 4 threads with a 6MB cache, capable of bursting up to 3.6GHz. This processor offers improved performance over previous generations, making it ideal for various computing needs.

# NEW TWIN LAKE INTEL N150 CPU PROCESSOR

Increased CPU Performance Compared to Previous N100 Processor



**4 Cores**  
**4 Threads**



**7nm**  
**Micro-Sized Chip**



**6W**  
**TDP**



**6MB**  
**Cache**



**3.60GHz**  
**Fast Processor**



## Multi-Core

### TWIN LAKE N150

2460

AlderLake N100

2280

AlderLake N95

1978

Jasper Lake N5105

1925

Jasper Lake N5095

1855

## Single-Core

### TWIN LAKE N150

979

AlderLake N100

910

AlderLake N95

781

Jasper Lake N5105

617

Jasper Lake N5095

601

Figure 3.1: Detailed view of the Intel Twin Lake N150 processor and its performance comparison against other Intel N-series CPUs.

## 3.2. Memory and Storage

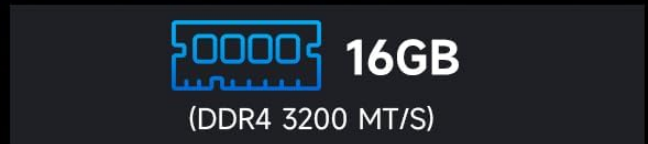
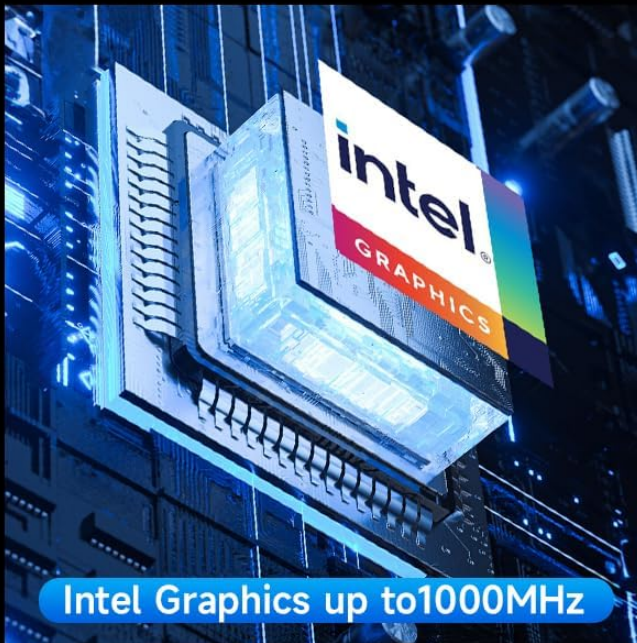
The Nucbox G3 Mini PC comes pre-installed with 16GB DDR4 RAM and a 512GB PCIe 3.0 M.2 2280 NVMe SSD. It also supports an additional M.2 2242 SATA SSD for expanded storage up to 2TB. This configuration ensures fast boot times, quick file transfers, and smooth multitasking.



**GMKtec**

**Nucbox G3 Plus**

**intel N150**



**Additional Function**  
1.Auto Power On  
2.Wake On LAN  
3.Compatible with Linux, Win 11 Pro, Ubuntu

Figure 3.2: Overview of GMKtec Nucbox G3 Plus features, highlighting the Intel N150 processor, 16GB DDR4 RAM, 512GB M.2 SSD, and dual 4K HDMI output.

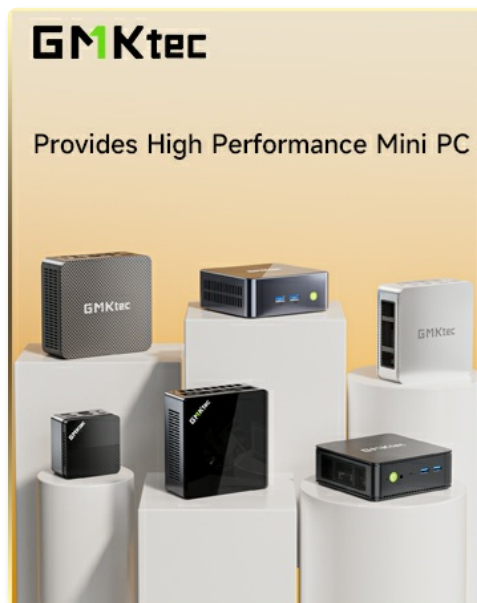


Figure 3.3: Internal components of the GMKtec G3 Plus, showing the DDR4 RAM slot and M.2 2280 NVMe SSD slot, along with an additional M.2 2242 SATA slot.

### 3.3. Connectivity and Ports

The Nucbox G3 Mini PC offers extensive connectivity options, including 4x USB 3.2 ports (up to 5Gbps/S), 2x HDMI 2.0 ports supporting 4K@60Hz dual display, a 3.5mm Audio Jack, WiFi 6 (802.11ax), Bluetooth 5.2, and a 2.5GbE RJ45 Gigabit Ethernet port. These features enable seamless connection to various peripherals and high-speed network access.



# RICH INTERFACE



Monitor



TV



Audio



Display



NAS



Printer



Projector

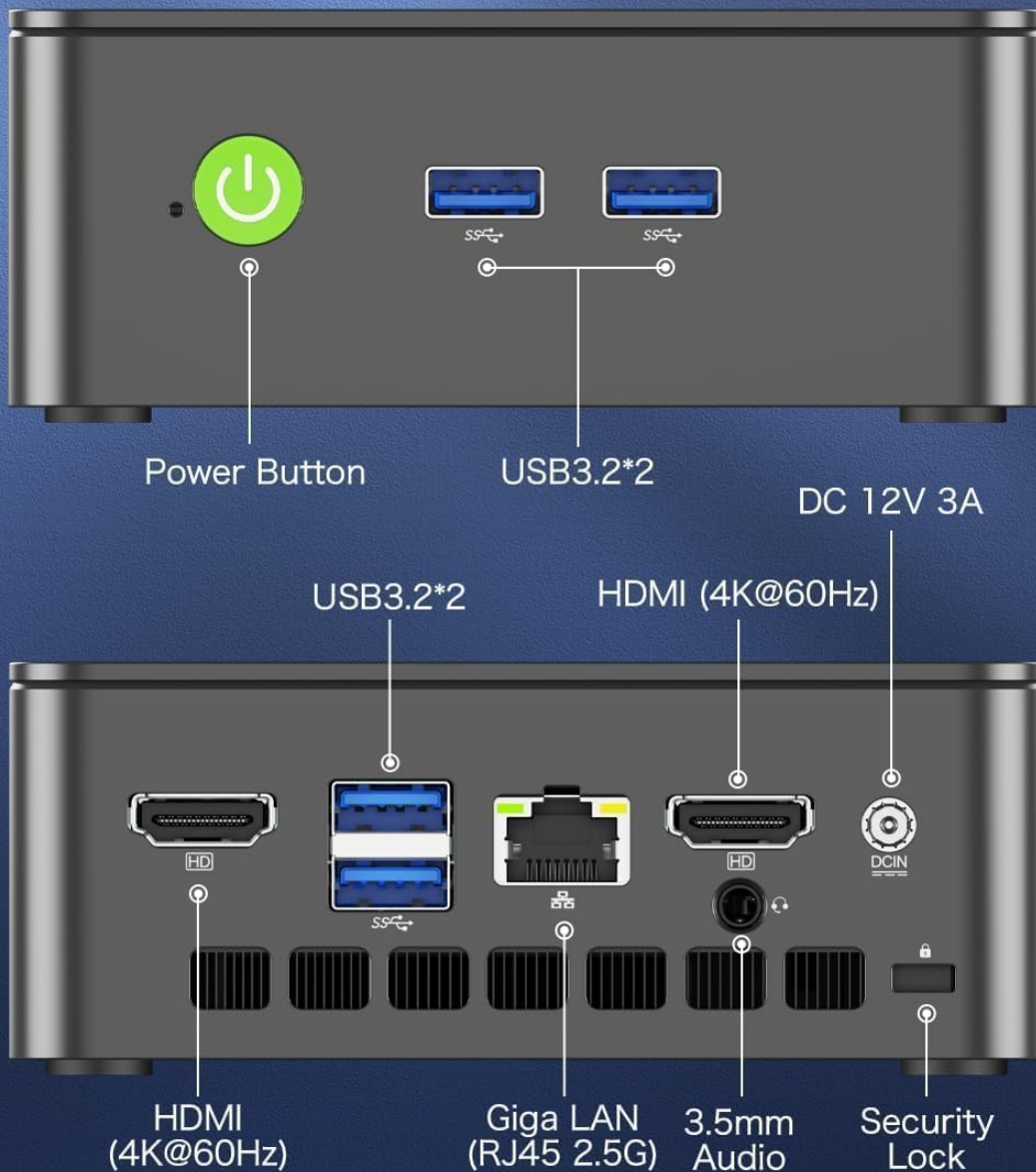


Figure 3.4: Front and rear views of the GMKtec G3 Plus Mini PC, detailing the power button, USB 3.2 ports, HDMI ports, Giga LAN (RJ45 2.5G), 3.5mm audio jack, and security lock.

# SUPER SPEED WI-FI 6

Tap into faster WiFi speeds with Dual-Band WiFi6 2\*2 2400Mbps



3 TIMES FASTER THAN WIFI5



Figure 3.5: Illustration of 2.5G High Speed Ethernet connectivity on the GMKtec G3 Plus, showing read-write and transmission speeds.



# PREMIUM PARTS & DESIGN

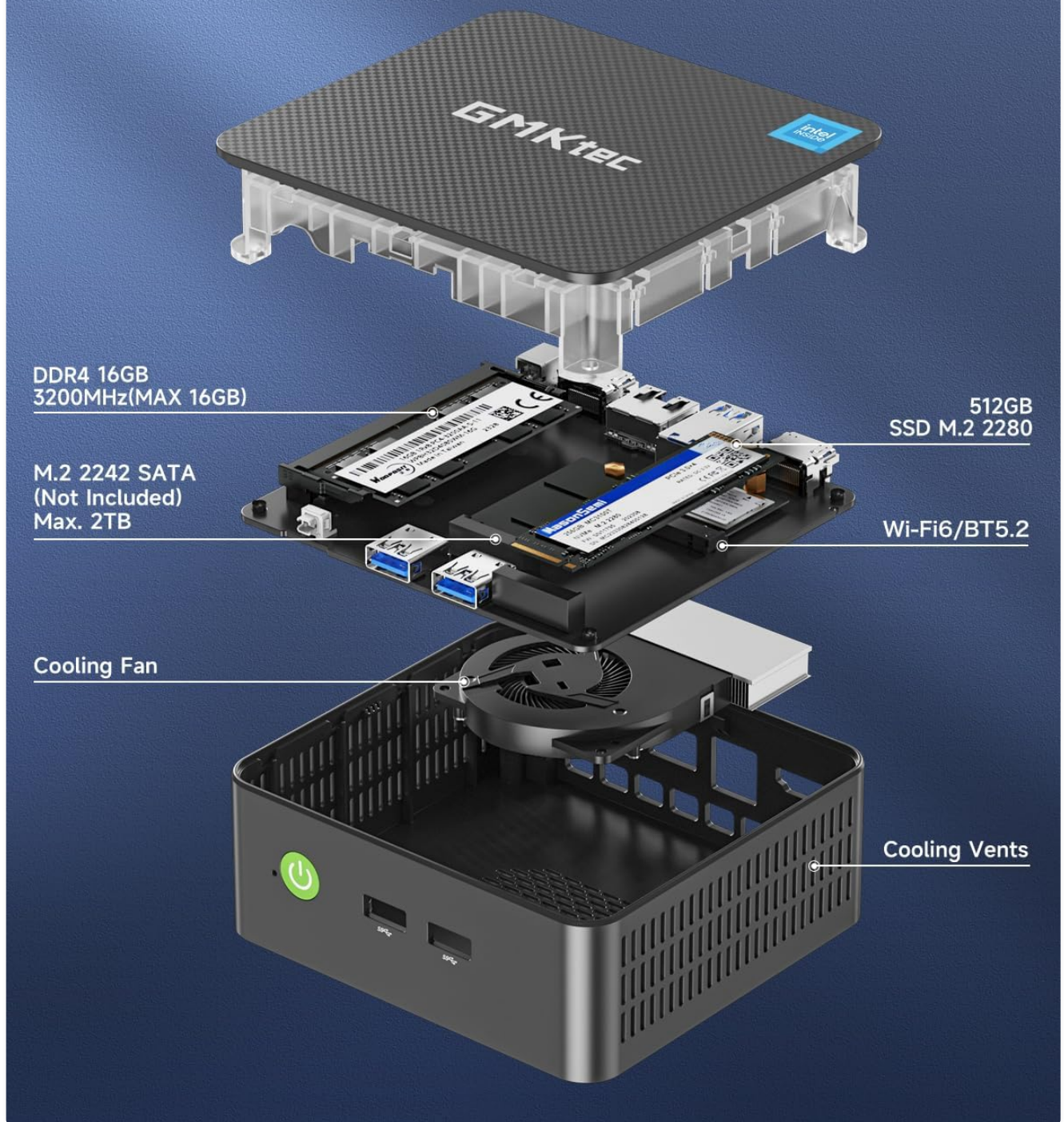


Figure 3.6: Visual representation of Super Speed Wi-Fi 6 and Bluetooth 5.2 features, highlighting higher bandwidth, lower latency, and increased coverage compared to Wi-Fi 5.

## 3.4. Dual 4K Display Support

Equipped with upgraded Intel Graphics (max 1000MHz), the Mini PC supports 4K video playback and AV1 decoding. The two HDMI 2.0 ports allow for efficient multitasking across two 4K@60Hz displays, making it suitable for home theater setups or professional workstations.



# DUAL SCREEN UHD DISPLAY

Enjoy 4K@60Hz Ultra HD Entertainment



HDMI 2.0 x2



Figure 3.7: Dual Screen UHD Display setup with the GMKtec G3 Plus, demonstrating its capability to connect to two 4K@60Hz monitors for enhanced productivity and entertainment.

## 3.5. Official Product Video

Video 3.1: Official product overview video for the GMKtec Nucbox G3 Plus Intel Twin Lake N150 Processor, showcasing its design and key features.

## 4. SETUP GUIDE

### 4.1. Initial Setup

1. Connect the Power Adapter: Plug the power adapter into the DC 12V 3A port on the back of the Mini PC and then into a power

outlet.

2. Connect Display(s): Use the provided HDMI cable(s) to connect your monitor(s) or TV to the HDMI ports on the back of the Mini PC.
3. Connect Peripherals: Plug in your USB keyboard and mouse into the available USB 3.2 ports.
4. Network Connection: For wired internet, connect an Ethernet cable to the 2.5GbE RJ45 port. For wireless, ensure your WiFi 6 network is available.
5. Power On: Press the power button on the front of the Mini PC. The system will boot up, and you should see the Windows 11 Pro desktop.

## 4.2. Dual Booting (Optional)

The GMKtec G3 Plus supports dual booting, allowing you to install multiple operating systems (e.g., Windows and Linux) on separate storage drives. This process typically involves accessing the BIOS/UEFI settings during startup to configure boot order or select the desired OS. Refer to specific OS installation guides for detailed steps.

## 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 (Power > Shut down).
- Connecting to Wi-Fi: In Windows, click the Wi-Fi icon in the taskbar, select your network, enter the password, and connect.
- Connecting Bluetooth Devices: Go to Windows Settings > Bluetooth & devices, turn on Bluetooth, and pair your devices.
- Using Dual Displays: Connect two monitors via HDMI. Windows will automatically detect them. You can configure display settings (extend, duplicate) in Display Settings.

### 5.2. Performance Considerations

The GMKtec G3 Plus is designed for efficient performance in everyday tasks. While capable of handling 4K video playback and light gaming, demanding applications may experience performance variations. The device supports Wake On LAN, PXE Boot, RTC Wake, and Auto Power On features, making it versatile for server applications.

## 6. MAINTENANCE

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### 6.1. Software Updates

- Windows Updates: Regularly check for and install Windows updates via Settings > Windows Update to ensure system stability and security.
- Driver Updates: Keep device drivers updated, especially for graphics and network components, by checking the GMKtec support website.

### 6.2. Hardware Maintenance

- Cleaning: Use a soft, dry cloth to clean the exterior. For vents, use compressed air to remove dust buildup.
- Storage Expansion: The Mini PC allows for easy access to the M.2 SSD slots for upgrades. Refer to the internal layout diagram in Section 3.2 for guidance.

## 7. TROUBLESHOOTING

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### 7.1. Common Issues

- No Display: Ensure HDMI cables are securely connected and monitors are powered on and set to the correct input. Try different HDMI ports or cables.
- Network Connectivity Issues: Check Ethernet cable connection. For Wi-Fi, ensure drivers are updated and the signal is strong. Restarting the PC and router may help.
- Performance Lag: Close unnecessary applications. Ensure sufficient free storage space. Check for background updates.
- Overheating: Ensure the Mini PC is placed in a well-ventilated area. Avoid blocking the cooling vents.



## 8. SPECIFICATIONS




Feature	Detail
Processor	Intel Twin Lake N150 (4 Cores, 4 Threads, 6MB Cache, up to 3.6GHz)
RAM	16GB DDR4
Storage	512GB PCIe 3.0 M.2 2280 NVMe SSD (Max 2TB), M.2 2242 SATA slot
Graphics	Intel Graphics (Max 1000MHz)
Video Output	2x HDMI 2.0 (4K@60Hz)
USB Ports	4x USB 3.2
Network	WiFi 6 (802.11ax), Bluetooth 5.2, 2.5GbE RJ45 Gigabit Ethernet
Operating System	Windows 11 Pro
Dimensions	6.46 x 6.26 x 4.09 inches
Weight	1.96 pounds




## 9. WARRANTY & SUPPORT

GMKtec offers a 1-year limited warranty for each Mini PC, starting from the date of purchase. All defects due to design and workmanship are covered. For technical support and inquiries, please refer to the following options:

- Contact Us on Amazon: Login to your Amazon account, navigate to Your Orders, and select "Ask Product Question" for assistance.
- Email After-Sales Team: You can send an email to [support@gmktec.com](mailto:support@gmktec.com) for direct support.
- 24/7 Customer Support: GMKtec provides round-the-clock customer support to address your needs.

### Related Documents - G3 PLUS

	<p><a href="#">GMKtec NUCBOX7/7S User Manual</a></p> <p>User manual for the GMKtec NUCBOX7 and NUCBOX7S mini PCs, detailing specifications, safety precautions, connection steps, and after-sales support.</p>
	<p><a href="#">GMKtec M6 Mini PC User Manual</a></p> <p>Comprehensive user manual for the GMKtec M6 Mini PC, detailing specifications, setup, operation, and troubleshooting for this compact desktop computer powered by AMD R5 6600H.</p>
	<p><a href="#">GMKtec NUCBOX G2 PLUS User Manual and Safety Information</a></p> <p>Comprehensive user manual for the GMKtec NUCBOX G2 PLUS mini PC, covering setup, specifications, safety precautions, and warranty information. Includes detailed descriptions of hardware interfaces and operational guidelines.</p>

	<p><a href="#">GMKtec NUCBOX7/7S User Manual - Setup, Specifications, and Support</a></p> <p>Comprehensive user manual for GMKtec NUCBOX7 and NUCBOX7S mini PCs, covering setup, technical specifications, safety precautions, and warranty information.</p>
	<p><a href="#">GMKtec EVO-T1 Mini PC User Manual: Specifications and Setup Guide</a></p> <p>Comprehensive user manual for the GMKtec EVO-T1 Mini PC, detailing technical specifications, connection steps, BIOS settings, power modes, safety precautions, and compliance information.</p>
	<p><a href="#">GMKtec NUCBOX G3 PLUS User Manual and Specifications</a></p> <p>Comprehensive user manual for the GMKtec NUCBOX G3 PLUS mini PC, covering setup, specifications, safety precautions, and warranty information. Includes detailed descriptions of hardware interfaces and technical details.</p>