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GMKtec M5 Plus 5825U 16+512

GMKtec M5 Plus Mini-PC User Manual

Model: M5 Plus 5825U 16+512

1. INTRODUCTION

Thank you for choosing the GMKtec M5 Plus Mini-PC. This compact and powerful desktop computer is designed for a wide range of applications, from office productivity and multimedia entertainment to light gaming. Equipped with an AMD Ryzen 7 5825U processor, ample memory, and high-speed storage, it offers reliable performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new Mini-PC to ensure optimal performance and longevity.



Figure 1.1: GMKtec M5 Plus Mini-PC, showcasing its compact design and various ports.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

RETAIL BOXED PACKAGING



1. Nucbox M5 Plus Mini PC

2. Power Supply & Cable

3. User Manual

4. HDMI Cable

5. VESA Mount with Screws

Figure 2.1: Contents of the GMKtec M5 Plus Mini-PC retail package.

- GMKtec M5 Plus Mini-PC
- Power Supply & Cable
- User Manual
- HDMI Cable
- VESA Mount with Screws

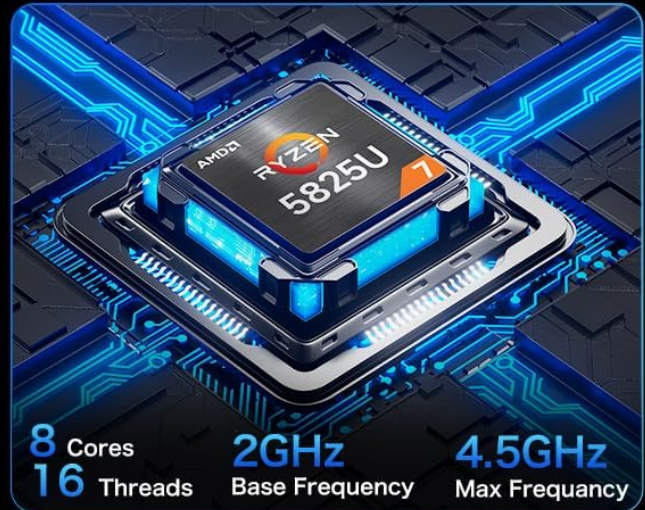
3. PRODUCT OVERVIEW

3.1 Key Features

The GMKtec M5 Plus Mini-PC is engineered for high performance and versatility:

- **Processor:** AMD Ryzen 7 5825U (8 Cores/16 Threads, up to 4.50 GHz)
- **Memory:** 16GB DDR4 RAM (Dual-Channel, expandable up to 64GB)
- **Storage:** 512GB PCIe 3.0 SSD (expandable up to 4TB PCIe 4.0 SSD)
- **Graphics:** Integrated AMD Radeon Graphics (8 Cores, 2000 MHz GPU)
- **Network:** Dual 2.5G RJ45 LAN ports, WiFi 6E (Triple-Band 2.5G/5G/6G), Bluetooth 5.2
- **Display Output:** Supports Triple 4K@60Hz display via HDMI 2.0, DisplayPort 1.4, and USB-C (DP Alt Mode)

GMKtec Nucbox M5 Plus AMD Ryzen 7 5825U



Triple Screen Display

(1*HDMI, 1*TYPE-C, 1*DPv1.4)



AMD Radeon Graphics



Windows 11 Pro



PCIe Gen 3.0

(Read Speed 3500MB/s)



Dual Cooling Fans

(Plus Heatsink)



DDR4 3200MHz

Dual Channel 16GB
(2*8GB RAM)



WiFi 6E (Bluetooth 5.2)

Figure 3.1: Detailed overview of the GMKtec M5 Plus Mini-PC's core specifications and features.

3.2 Ports and Interfaces

The Mini-PC offers a comprehensive set of ports for connectivity:

RICH INTERFACE

For Business, Office, Gaming, Home



Figure 3.2: Front and rear panel interfaces of the GMKtec M5 Plus Mini-PC.

- **Front Panel:** Power Button, 3.5mm Audio Jack, USB-C (PD/DP/DATA up to 10Gbps), 2x USB 3.2 ports
- **Rear Panel:** 2x USB 2.0 ports, DisplayPort 1.4, HDMI 2.0, 2x Giga LAN (RJ45 2.5G), DC-IN 19V/3.42A, Kensington Lock slot

3.3 Internal Components and Cooling

The M5 Plus features a well-designed internal layout for efficient performance and cooling.

PREMIUM PARTS & DESIGN

256GB PCIe M.2 2280 SSD UP TO 4TB!

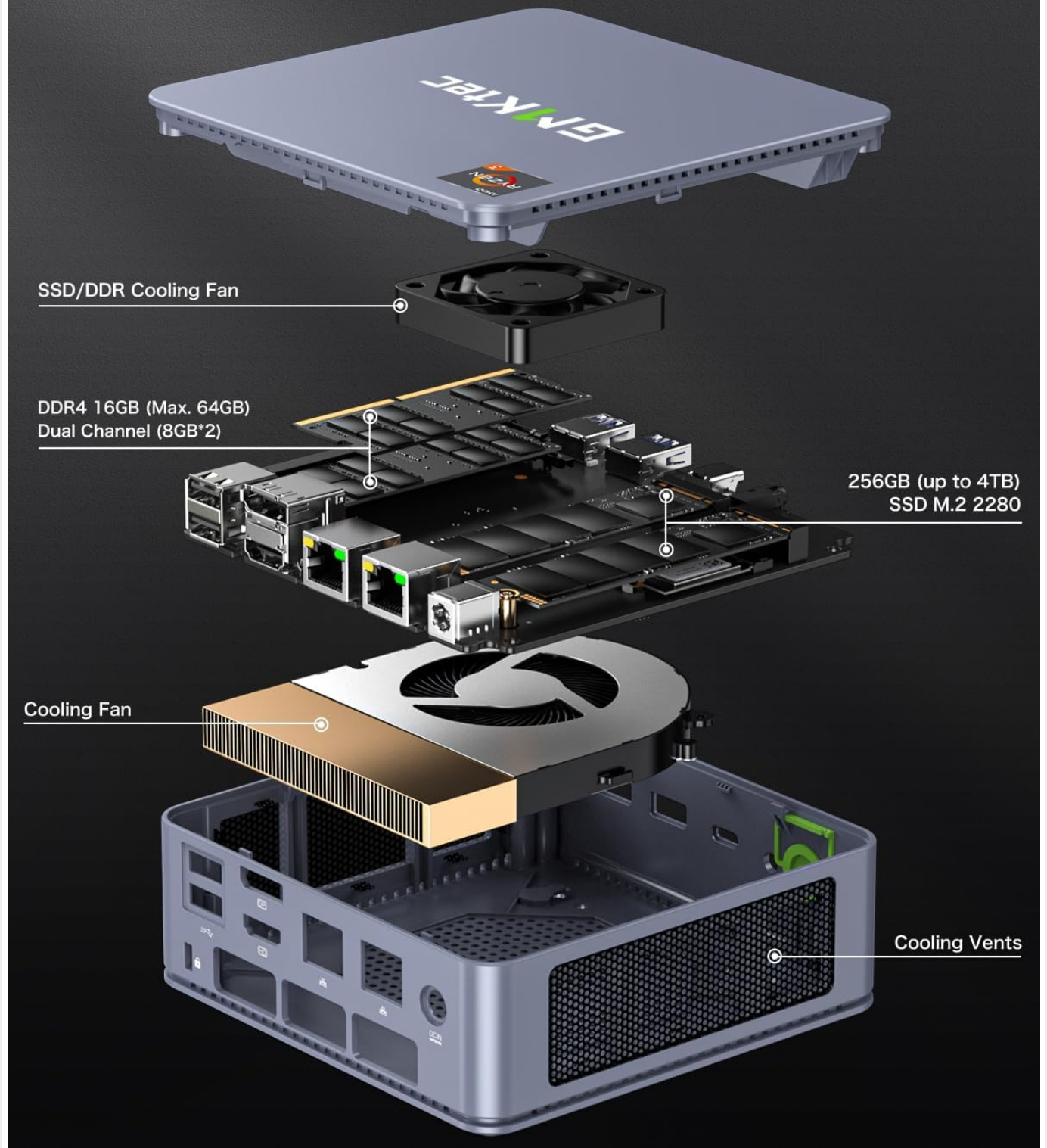


Figure 3.3: Exploded view illustrating the internal components, including the SSD, DDR4 RAM, cooling fan, and cooling vents.



Figure 3.4: The Mini-PC incorporates an improved quiet cooling fan and multiple exhaust vents for effective heat dissipation, ensuring stable operation.

3.4 Network Connectivity

Experience fast and reliable network connections with the M5 Plus.

SPACE-SAVING VESA INSTALLATION & DESKTOP PLACEMENT



Desktop Placement



VESA Installation

Figure 3.5: The Mini-PC supports Super Speed WiFi 6E for faster wireless connectivity across 2.4GHz, 5GHz, and 6GHz bands, along with Bluetooth 5.2 for peripheral connections.



Figure 3.6: The dual 2.5G RJ45 LAN ports provide significantly faster wired network speeds compared to standard 1000Mbps LAN, ideal for demanding network tasks.

4. SETUP

4.1 Initial Connection

Follow these steps to set up your GMKtec M5 Plus Mini-PC:

1. **Connect Display:** Connect your monitor(s) to the Mini-PC using the HDMI, DisplayPort, or USB-C ports.
2. **Connect Peripherals:** Plug in your keyboard, mouse, and other USB devices into the available USB ports.
3. **Connect Network (Optional):** For a wired connection, connect an Ethernet cable to one of the 2.5G LAN ports. For wireless, ensure your Wi-Fi network is available.
4. **Connect Power:** Plug the power adapter into the DC-IN port on the Mini-PC, then plug the power cable into a power outlet.
5. **Power On:** Press the power button on the front of the Mini-PC. The power indicator light will illuminate.

4.2 VESA Mount Installation

The GMKtec M5 Plus Mini-PC 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.



Figure 4.1: The Mini-PC can be placed on a desktop or mounted using the VESA bracket for space-saving installation.

1. Attach the VESA mount bracket to the back of your monitor or desired surface using the provided screws. Ensure it is securely fastened.
2. Slide the Mini-PC onto the VESA mount until it clicks into place.
3. Ensure all cables are connected properly after mounting.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Power On:** Press the power button on the front of the Mini-PC.
- **To Power Off:** For safe shutdown, click the Start button in Windows, then select Power > Shut down. Alternatively, you can press and hold the power button for 4-5 seconds to force a shutdown (not recommended for regular use).

5.2 Network Connection

- **Wired Connection:** Connect an Ethernet cable from your router/modem to one of the 2.5G LAN ports on the Mini-PC. The system will automatically detect the connection.
- **Wireless Connection:** In Windows, click the Wi-Fi icon in the taskbar, select your desired network, enter the password, and click Connect.

5.3 Multi-Display Setup

The GMKtec M5 Plus supports connecting up to three displays simultaneously for enhanced productivity or immersive entertainment.

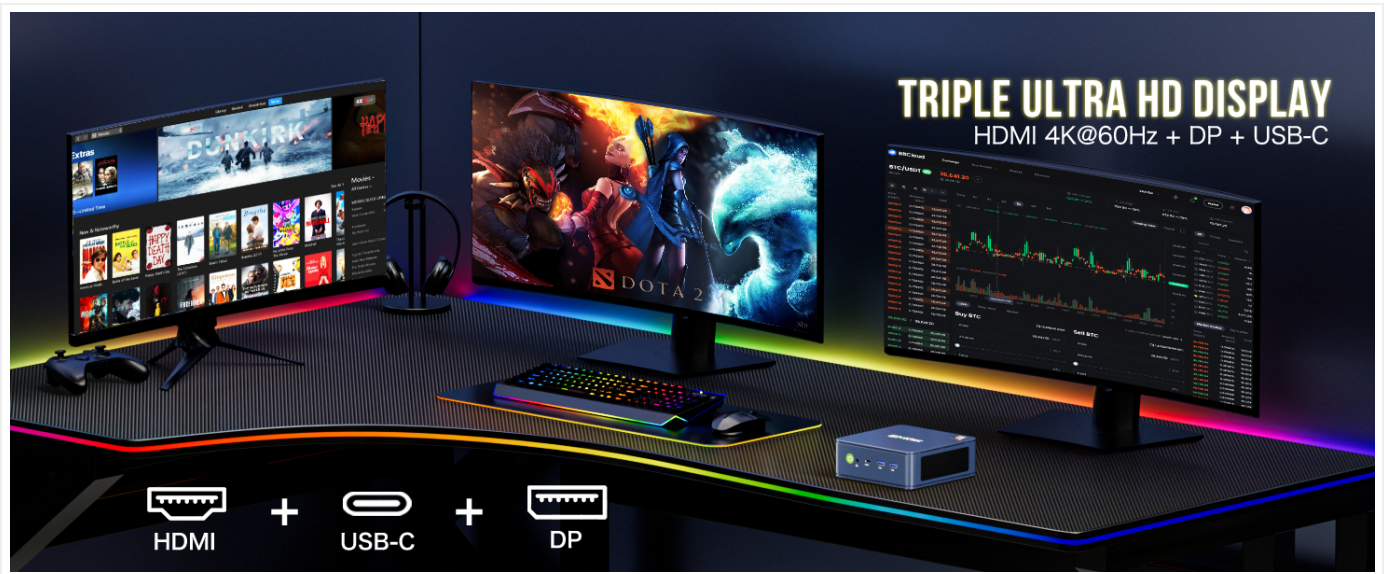


Figure 5.1: Connect up to three monitors using the HDMI, USB-C (DisplayPort Alt Mode), and DisplayPort outputs for a multi-display setup.

- Connect your primary monitor to the HDMI port.
- Connect a second monitor to the DisplayPort.
- Connect a third monitor to the USB-C port (ensure your USB-C cable and monitor support DisplayPort Alternate Mode).
- In Windows Display Settings, you can configure display modes (Extend, Duplicate, or Second screen only) and resolutions for each monitor.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your Mini-PC.

- Use a soft, dry cloth to wipe the exterior of the Mini-PC.
- For dust accumulation in vents, use compressed air to gently blow out dust. Ensure the Mini-PC is powered off and unplugged before cleaning.
- Avoid using liquid cleaners or abrasive materials.

6.2 Storage and Environment

- Store the Mini-PC in a cool, dry place away from direct sunlight, excessive heat, or humidity.
- Ensure proper ventilation around the device during operation. Do not block the air vents.

6.3 Upgrades

The GMKtec M5 Plus Mini-PC allows for memory and storage upgrades:

- **RAM:** The device supports up to 64GB DDR4 RAM. You can replace or add to the existing 16GB (2x8GB) modules.
- **SSD:** The 512GB M.2 2280 PCIe 3.0 SSD can be upgraded to a PCIe 4.0 SSD up to 4TB.
- For upgrade instructions, please refer to the detailed guides available on the GMKtec support website or consult a qualified technician.

7. TROUBLESHOOTING

If you encounter issues with your GMKtec M5 Plus Mini-PC, refer to the table below for common problems and solutions. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Mini-PC does not power on.	No power supply; faulty power adapter; loose connection.	Ensure power adapter is securely connected to the Mini-PC and power outlet. Test the outlet with another device. Try a different power adapter if available.
No display on monitor.	Loose display cable; incorrect input source on monitor; faulty monitor/cable.	Check display cable connections. Ensure monitor is set to the correct input source (HDMI, DP, USB-C). Test with a different monitor or cable.
No internet connection (wired).	Loose Ethernet cable; router/modem issue; network driver issue.	Ensure Ethernet cable is securely connected. Restart your router/modem. Check network adapter status in Device Manager.
No internet connection (wireless).	Wi-Fi disabled; incorrect password; router/modem issue; driver issue.	Ensure Wi-Fi is enabled in Windows. Verify Wi-Fi password. Restart your router/modem. Update Wi-Fi drivers.
System is slow or unresponsive.	Too many applications running; insufficient RAM; overheating.	Close unnecessary applications. Check Task Manager for high resource usage. Ensure proper ventilation and clean dust from vents. Consider RAM upgrade if frequently slow.

8. SPECIFICATIONS

Detailed technical specifications for the GMKtec M5 Plus Mini-PC:

Feature	Specification
Brand	GMKtec
Model/Series	M5 PLUS
Processor	AMD Ryzen 7 5825U (8 Cores/16 Threads, up to 4.50 GHz)
Operating System	Win 11 Pro
RAM	16GB DDR4 (Dual-Channel), Max. 64GB supported
Storage	512GB PCIe 3.0 SSD (M.2 2280), expandable up to 4TB
Graphics Coprocessor	AMD Radeon Vega Graphics (Integrated)
Display Resolution	4096 x 2304 (4K)
Wireless Connectivity	WiFi 6E (2.5G/5G/6G), Bluetooth 5.2
LAN	2x 2.5G RJ45 Gigabit Ethernet
USB Ports	2x USB 3.2, 2x USB 2.0, 1x USB-C (PD/DP/DATA)
Video Output	1x HDMI 2.0 (4K@60Hz), 1x DisplayPort 1.4, 1x USB-C (DP Alt Mode)
Audio	3.5mm Audio (Headphone & Microphone)

Feature	Specification
Weight	1.4 Kilograms
Dimensions	19 x 18.6 x 10.9 cm (Packaging)

9. WARRANTY AND SUPPORT

GMKtec provides a limited warranty for your Mini-PC to ensure your peace of mind.

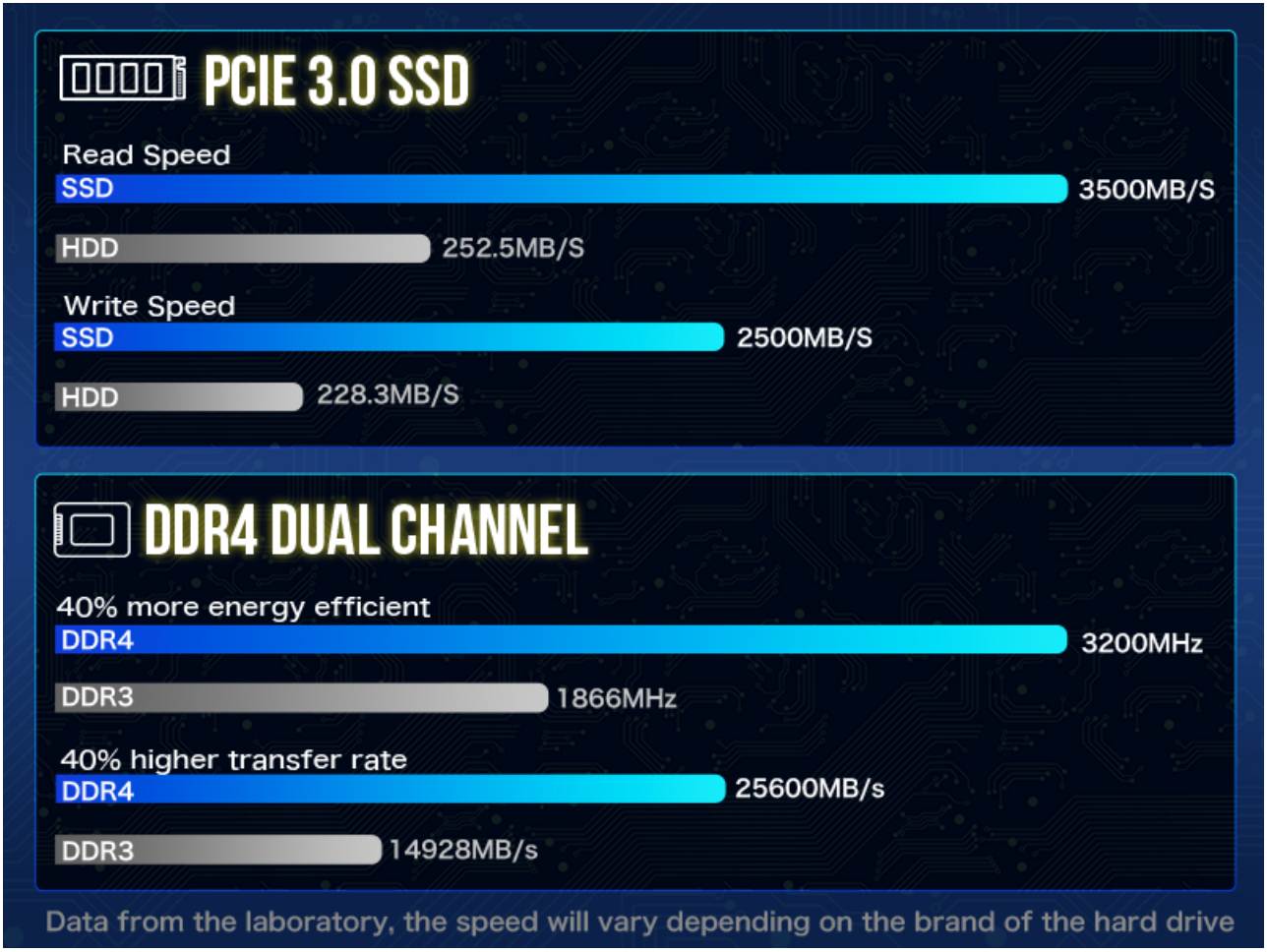








Figure 9.1: Overview of GMKtec's warranty and support services.

- **Warranty Period:** Each GMKtec Mini-PC comes with a 2-year limited warranty from the date of purchase. This warranty covers defects due to construction and manufacturing.
- **Customer Service:** For any inquiries, technical assistance, or warranty claims, please contact our professional customer service team.
- **Email Support:** You can reach our after-sales support team via email at support@gmktec.com. Our team is available 24/7 to assist you.
- **Amazon Support:** For purchases made through Amazon, you can also contact us via the Amazon messaging system by logging into your Amazon account, navigating to 'Your Orders', and selecting 'Ask Product Question'.



	<p>GMKtec M6 Mini PC User Manual</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>GMKtec NUCBOX M5 PLUS User Manual</p> <p>User manual for the GMKtec NUCBOX M5 PLUS mini PC, detailing its features, specifications, connection steps, and basic settings. Includes safety precautions and warranty information.</p>
	<p>GMKtec NUCBOX M5 PLUS User Manual and Safety Guide</p> <p>Comprehensive user manual for the GMKtec NUCBOX M5 PLUS mini PC, detailing setup, specifications, safety precautions, and warranty information. Learn how to connect your device, access BIOS, and ensure safe operation.</p>
	<p>Návod k obsluze GMKtec NUCBOX G3: Specifikace a Bezpečnostní Pokyny</p> <p>Kompletní uživatelský manuál pro GMKtec NUCBOX G3 mini PC. Obsahuje informace o specifikacích, připojení, bezpečnosti, údržbě a záruce produktu.</p>
	<p>Instrukcja Obsługi GMKtec NUCBOX K5/K6/K8</p> <p>Szczegółowa instrukcja obsługi dla komputerów mini PC GMKtec NUCBOX K5, K6 i K8, zawierająca informacje o konfiguracji, specyfikacjach technicznych, bezpieczeństwie, konserwacji i zgodności.</p>
	<p>GMKtec NUCBOX K1/K2 Mini PC User Manual - Setup, Specifications, and Support</p> <p>Comprehensive user manual for the GMKtec NUCBOX K1 and K2 Mini PCs, detailing setup procedures, technical specifications for both models, connectivity options, warranty information, and customer support contacts.</p>