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GMKtec M5 PLUS

GMKtec M5 Plus Mini PC Instruction Manual

Model: M5 PLUS

1. INTRODUCTION

The GMKtec M5 Plus Mini PC is a compact and powerful computing solution designed for various applications, including office work, home entertainment, and light gaming. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Image 1.1: GMKtec M5 Plus Mini PC. This image displays the compact design of the mini PC, highlighting its small footprint suitable for various environments.

2. WHAT'S IN THE BOX

Upon opening your GMKtec M5 Plus Mini PC package, you should find the following items:

- GMKtec Nucbox M5 Plus AMD Ryzen 7 5825U Mini PC Computer
- Power Supply & Cable
- HDMI Cable
- VESA Mount and Screws
- User Manual

RETAIL BOXED PACKAGING



1. Nucbox M5 Plus Mini PC
2. Power Supply & Cable
3. User Manual
4. HDMI Cable
5. VESA Mount with Screws

Image 2.1: Retail Boxed Packaging. This image shows the contents of the GMKtec M5 Plus package, including the mini PC, power adapter, HDMI cable, VESA mount, and user manual.

Video 2.1: GMKtec M5 AMD Ryzen 7 5700U Unboxing Video Presentation. This video demonstrates the unboxing process of a similar GMKtec M5 series mini PC, showcasing the included accessories and initial presentation.

3. PRODUCT OVERVIEW

Front Panel

- **Power Button:** To turn the device on/off.
- **BIOS Reset Pinhole:** For resetting BIOS settings.
- **3.5mm Audio Jack:** For headphones or external speakers.
- **USB-C Port:** Supports DisplayPort (DP), Power Delivery (PD), and data transfer up to 10Gbps.
- **USB 3.2 Ports (x2):** For connecting high-speed peripherals.

Rear Panel

- **Kensington Lock Slot:** For physical security.
- **USB 2.0 Ports (x2):** For connecting peripherals.
- **DisplayPort (DPv1.4):** For video output.
- **HDMI 2.0 Port:** For video output (4K@60Hz).
- **RJ45 2.5GbE LAN Ports (x2):** For high-speed wired network connections.
- **DC IN Port:** For power input (19V 3.42A).

RICH INTERFACE

For Business, Office, Gaming, Home

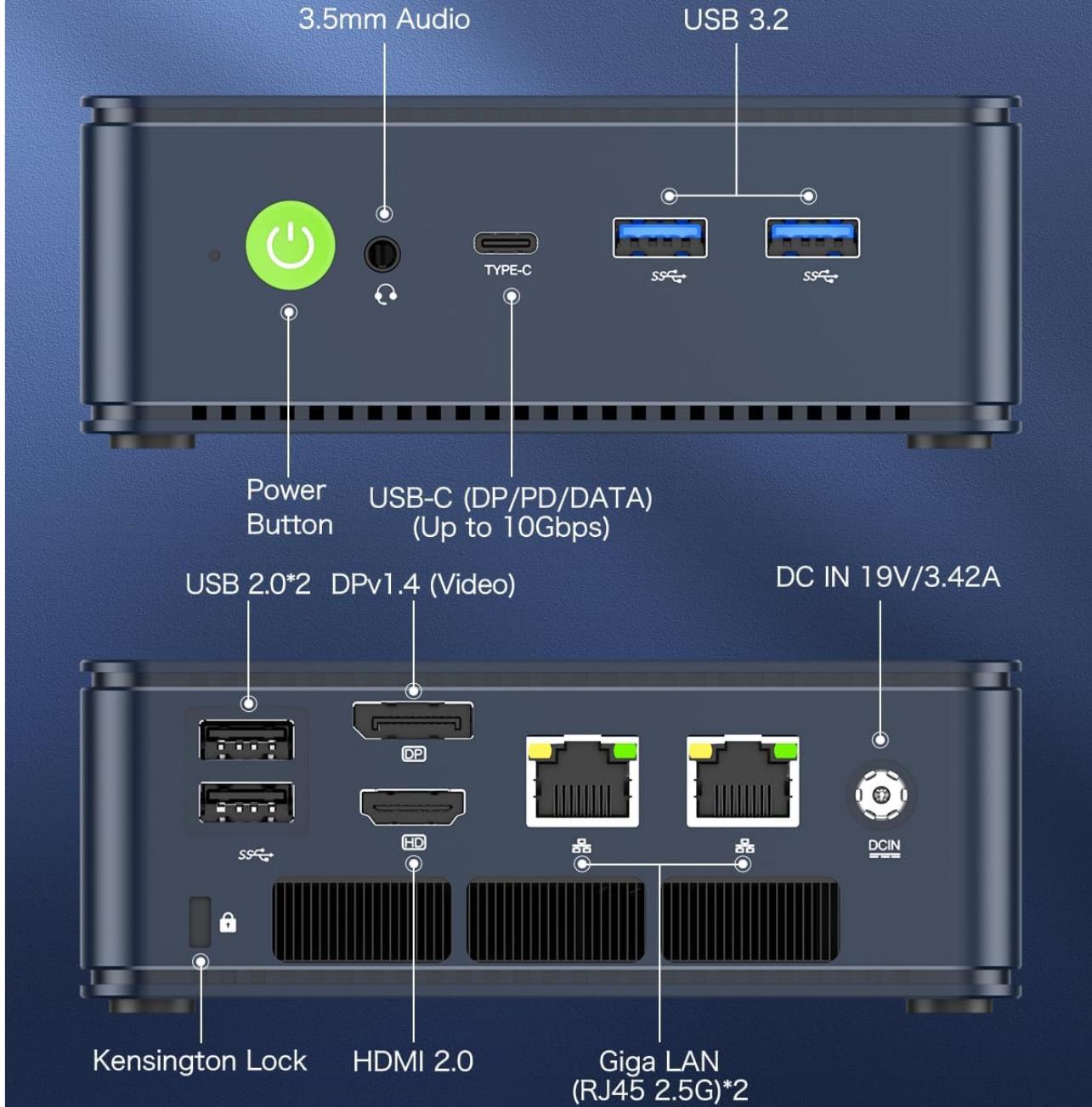


Image 3.1: Front and Rear Panel Interfaces. This image illustrates the various ports available on the front and rear panels of the GMKtec M5 Plus Mini PC, including USB, HDMI, DisplayPort, and Ethernet connections.

Video 3.1: GMKtec M5 AMD Ryzen 7 5825U Mini PC Computer Overview. This video provides a general overview of the GMKtec M5 Mini PC, showcasing its design and key features.

4. SETUP

4.1 Initial Connection

1. Connect your monitor(s) to the HDMI, DisplayPort, or USB-C video output ports.
2. Connect your keyboard and mouse to the available USB ports.
3. For wired internet, connect an Ethernet cable to one of the RJ45 LAN ports.
4. Plug the power adapter into the DC IN port and then into a power outlet.
5. Press the power button on the front panel to turn on the Mini PC.

4.2 VESA Mount Installation

The GMKtec M5 Plus supports VESA mounting, allowing you to attach it to the back of a compatible monitor or to a wall for a clutter-free setup. Use the included VESA mount and screws for installation.

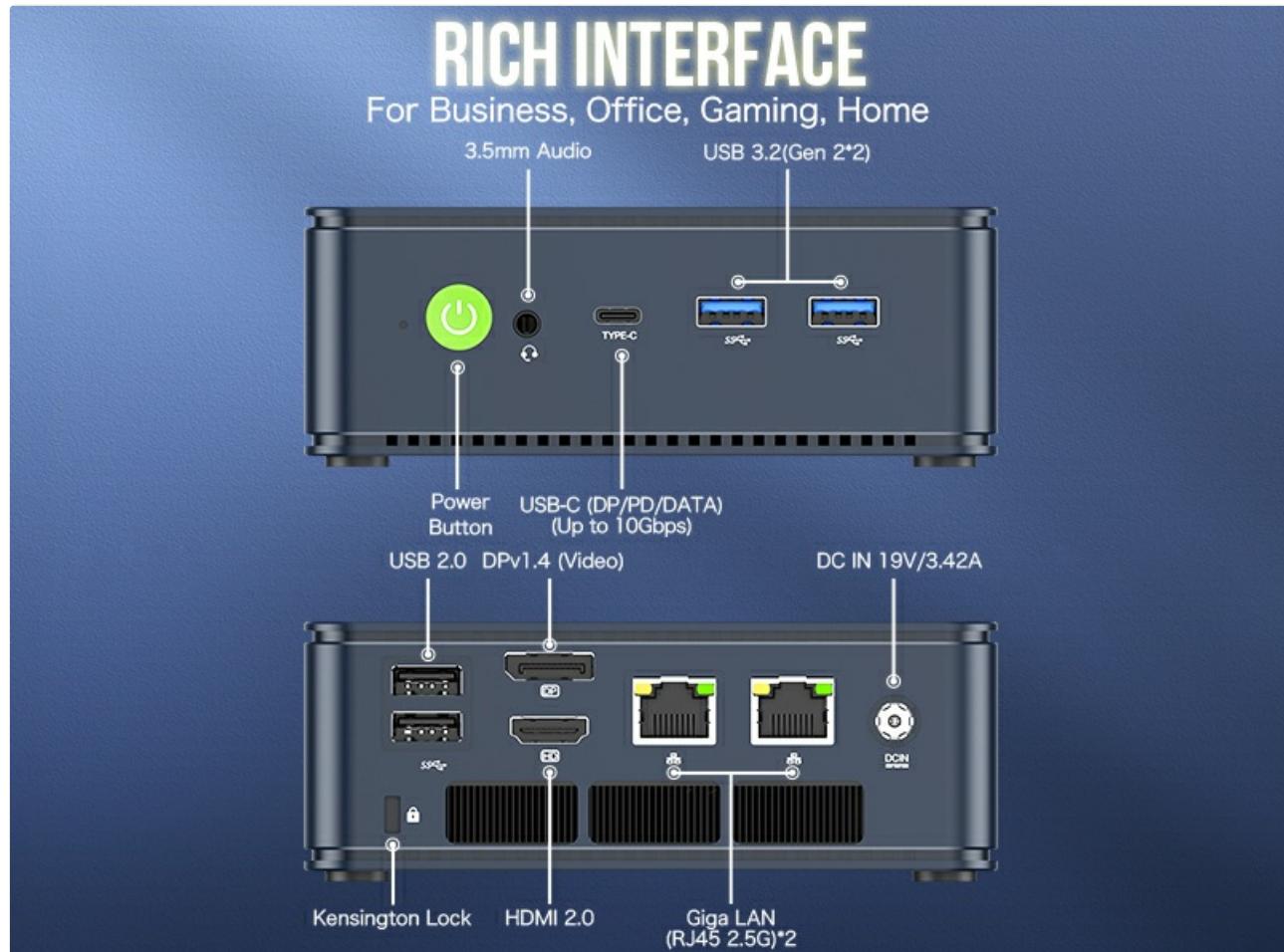


Image 4.1: Space-Saving VESA Installation. This image demonstrates how the mini PC can be mounted behind a monitor using the VESA bracket, optimizing desk space.

5. OPERATING SYSTEM AND INITIAL CONFIGURATION

Your GMKtec M5 Plus Mini PC comes pre-installed with Windows 11 Pro. Follow the on-screen instructions for the initial setup, including language selection, network connection, and user account creation.

5.1 Driver Updates

It is recommended to check for and install the latest drivers for your system components, especially the AMD Radeon Graphics, to ensure optimal performance and stability. Driver updates can typically be found on the GMKtec official website or through Windows Update.

5.2 Performance Modes

The AMD Ryzen 7 5825U processor supports different performance modes. You can adjust these settings in the BIOS to switch between a power-saving quiet mode (Base 2.00GHz) and a performance mode (Turbo Boost up to 4.50GHz) based on your needs.

6. HARDWARE UPGRADES

The GMKtec M5 Plus is designed for easy upgrades, allowing you to enhance its memory and storage capabilities.

6.1 RAM Upgrade

The mini PC is equipped with 32GB DDR4 RAM (2x16GB) in dual-channel configuration. It supports expansion up to 64GB RAM. To upgrade, carefully remove the top cover, locate the SO-DIMM slots, and replace or add RAM modules as needed.

6.2 SSD Upgrade

The device features a 1TB M.2 2280 PCIe 3.0 SSD and supports dual slot expansion up to 4TB SSD. To upgrade, remove the top cover, locate the M.2 slots, and install or replace the SSD.



Image 6.1: Internal Components and Upgrade Options. This image provides a detailed view of the internal layout, highlighting the AMD Ryzen 7 5825U processor, SSD, DDR4 RAM slots, WiFi 6E, Bluetooth 5.2, and the high-efficiency heat dissipation fan.

7. CONNECTIVITY

The GMKtec M5 Plus offers robust connectivity options for both wired and wireless environments.

7.1 Wireless Connectivity

- WiFi 6E:** Supports 2.5G/5G/6G triple band for faster speeds and lower latency.
- Bluetooth 5.2:** For connecting wireless devices such as headsets, mice, and keyboards.



Image 7.1: Super Speed WiFi 6E. This image highlights the WiFi 6E and Bluetooth 5.2 capabilities of the mini PC, ensuring fast and reliable wireless connections.

7.2 Wired Connectivity

- **Dual 2.5GbE LAN:** Two RJ45 ports provide high-speed wired network connections, ideal for server applications or demanding network tasks.

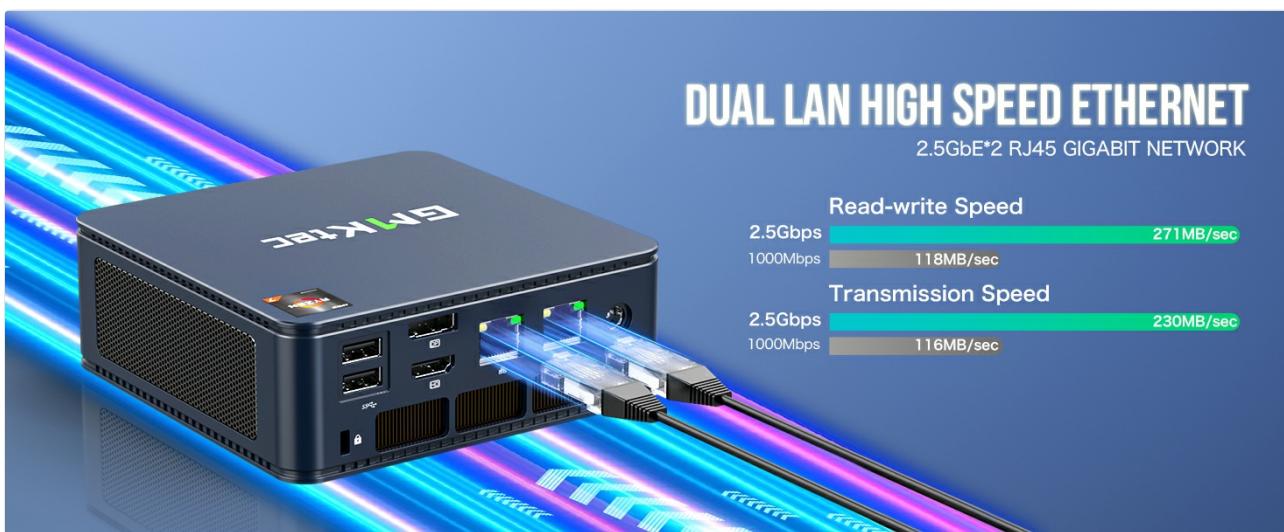


Image 7.2: Dual LAN High Speed Ethernet. This image emphasizes the dual 2.5GbE RJ45 Gigabit network ports, illustrating their high read-write and transmission speeds.

7.3 Triple Display Support

The integrated AMD Radeon Graphics supports triple 4K@60Hz UHD display output via HDMI 2.0, DisplayPort, and USB-C, suitable for complex design software, video editing, and multi-monitor setups.

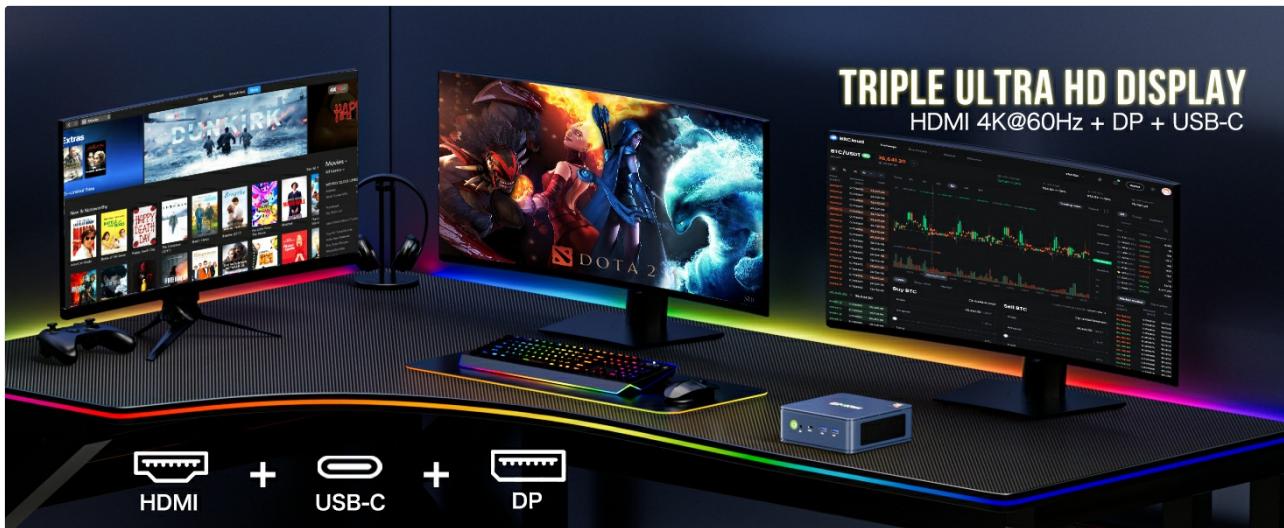


Image 7.3: Triple Ultra HD Display. This image showcases the mini PC's ability to connect to three monitors simultaneously, supporting 4K@60Hz resolution via HDMI, DisplayPort, and USB-C.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your GMKtec M5 Plus Mini PC.

8.1 Cooling System

The mini PC features dual cooling fans and multiple exhaust vents to prevent overheating. The design allows for increased airflow, contributing to better thermal management.



Image 8.1: Improved Quiet Cooling Fan. This image highlights the copper cooling fan and multiple exhaust vents designed for efficient heat dissipation

and quiet operation.

8.2 Cleaning

Regularly clean the air vents to prevent dust buildup, which can impede airflow and lead to overheating. Use a can of compressed air to gently clear dust from the vents.

9. SPECIFICATIONS

Feature	Specification
Processor	AMD Ryzen 7 5825U (8 Cores/16 Threads, Base 2.00GHz, Turbo 4.50GHz)
RAM	32GB DDR4 3200MHz (2x16GB), expandable to 64GB
Storage	1TB M.2 2280 PCIe 3.0 SSD, dual slot expandable to 4TB
Graphics	AMD Radeon Graphics 8CUs 2000 MHz
Operating System	Windows 11 Pro
Wireless Connectivity	WiFi 6E (2.5G/5G/6G), Bluetooth 5.2
Wired Connectivity	2x RJ45 2.5GbE LAN Ports
Video Output	1x HDMI 2.0 (4K@60Hz), 1x DisplayPort, 1x USB-C (DP/PD/DATA)
USB Ports	2x USB 3.2, 2x USB 2.0
Audio	1x 3.5mm Audio Jack (HP&MIC)
Dimensions	10 x 2 x 2.7 inches
Weight	1.1 pounds

10. TROUBLESHOOTING

10.1 No Display Output

- Ensure all display cables (HDMI, DP, USB-C) are securely connected to both the Mini PC and the monitor.
- Verify the monitor is powered on and set to the correct input source.
- Try connecting to a different display port or monitor to isolate the issue.

10.2 Device Not Powering On

- Check that the power adapter is correctly connected to the Mini PC and a working power outlet.
- Ensure the power button is fully pressed.

10.3 Performance Issues

- Update all system drivers, especially graphics drivers, from the GMKtec website or Windows Update.
- Ensure adequate ventilation and clean dust from the cooling vents.
- Adjust performance settings in the BIOS if you require higher processing power.

10.4 BIOS Reset

If you encounter persistent issues related to system boot or settings, you can perform a BIOS reset using the pinhole on the front panel. Refer to the user manual for specific instructions on how to perform this action safely.

11. WARRANTY AND SUPPORT

GMKtec is committed to providing reliable products and excellent customer service.

11.1 Warranty Information

GMKtec offers a **1-year limited warranty** for each Mini PC, starting from the date of purchase. This warranty covers all defects due to design and workmanship. Please retain your proof of purchase for warranty claims.

11.2 Customer Support

For any technical assistance, warranty claims, or product inquiries, please contact our professional after-sales team:

- **Email:** support@gmktc.com (24/7 Customer Support)
- **Amazon Support:** Log in to your Amazon account, navigate to 'Your Orders', and select 'Ask Product Question' for direct assistance.



Image 11.1: Warranty & Support. This image provides contact details for GMKtec customer support, including email and instructions for Amazon support.