

GMKtec GMKtec Nucbox M5 Plus 32+512

GMKtec Nucbox M5 Plus Mini PC User Manual

Model: GMKtec Nucbox M5 Plus 32+512

1. INTRODUCTION

The GMKtec Nucbox M5 Plus is a high-performance mini PC designed for both gaming and office use. Featuring the powerful AMD Ryzen 7 5825U processor, 32GB of DDR4 RAM, and a 512GB PCIe 3.0 SSD, this compact device offers exceptional performance for demanding tasks. It supports triple 4K display output and advanced connectivity options including Dual 2.5G LAN and WiFi 6E. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Nucbox M5 Plus.



Image 1.1: The GMKtec Nucbox M5 Plus Mini PC, showcasing its compact design and various ports on the front and rear.

2. WHAT'S IN THE BOX

Upon opening the retail packaging, ensure all the following items are present:

- 1 x Nucbox M5 Plus Mini PC
- 1 x Power Supply & Cable
- 1 x User Manual (this document)
- 1 x HDMI Cable
- 1 x VESA Mount with Screws

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: The complete retail package contents, including the mini PC, power adapter, cables, and VESA mount.

3. PRODUCT OVERVIEW

3.1. Front and Rear Interfaces

The Nucbox M5 Plus is equipped with a variety of ports for versatile connectivity:

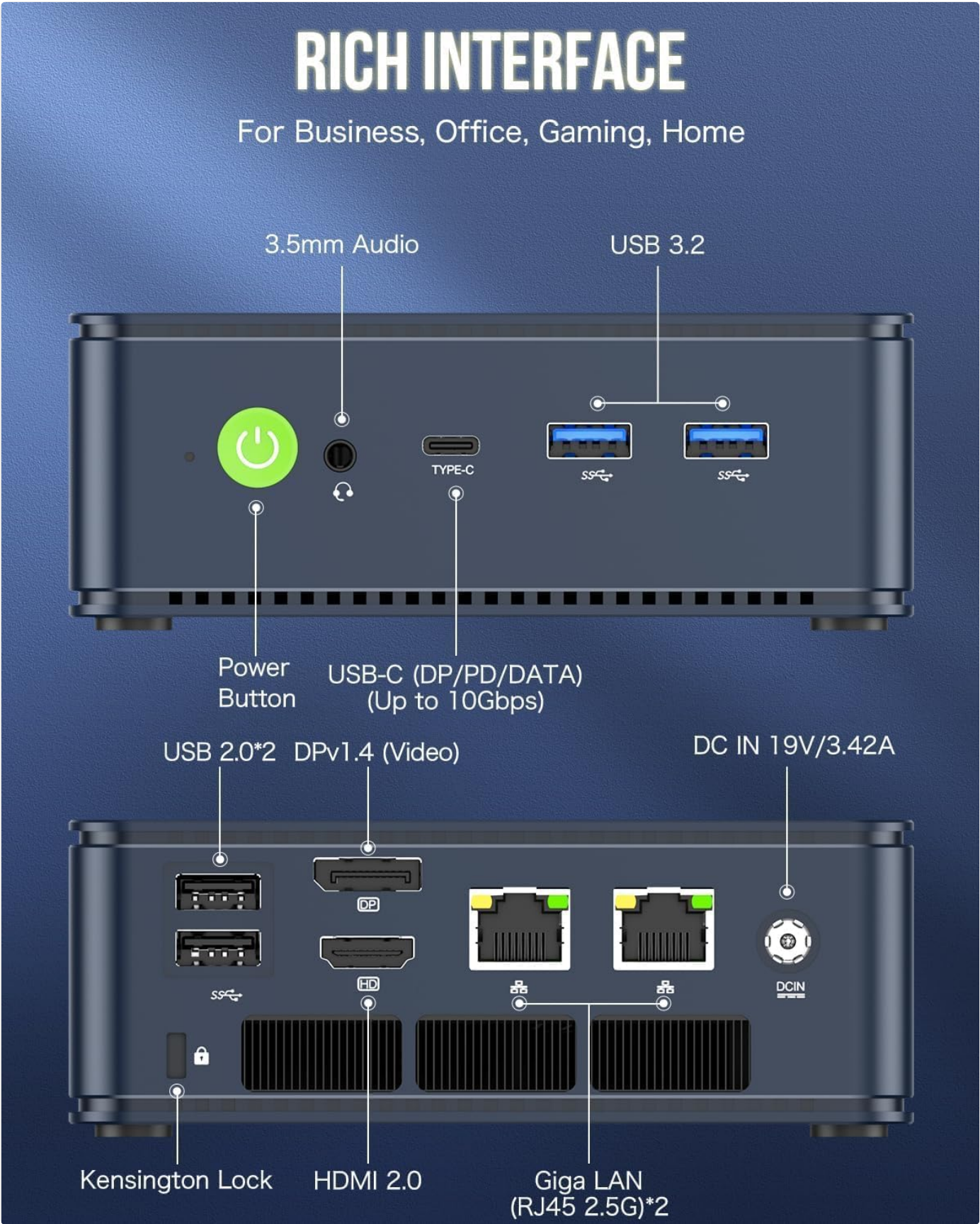


Image 3.1: Detailed view of the front and rear ports of the Nucbox M5 Plus.

- Front Panel:

- Power Button
- 3.5mm Audio Jack (Headphone & Microphone)
- USB-C (DP/PD/DATA, up to 10Gbps)
- 2 x USB 3.2 Ports

- **Rear Panel:**

- Kensington Lock Slot
- 2 x USB 2.0 Ports
- 1 x HDMI 2.0 Port (4K@60Hz)
- 1 x DisplayPort 1.4 (DP)
- 2 x 2.5G Gigabit LAN (RJ45) Ports
- DC Power Input (19V/3.42A)

3.2. Key Features

The Nucbox M5 Plus integrates several advanced features for enhanced performance and user experience:

GMKtec Nucbox M5 Plus AMD Ryzen 7 5825U



Triple Screen Display

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



AMD Radeon
Graphics 2000MHz



WiFi 6E
(Bluetooth 5.2)



PCIe Gen 3.0

(Read Speed 3500MB/s)



Dual Cooling Fans

(Plus Heatsink)



DDR4 3200MHz

Dual Channel 32GB
(2*16GB RAM)

Additional Function

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

Image 3.2: An infographic detailing the core components and features of the Nucbox M5 Plus, including CPU, GPU, memory, storage, and cooling.

- **Processor:** AMD Ryzen 7 5825U (8 Cores/16 Threads, up to 4.30 GHz)
- **Graphics:** Integrated AMD Radeon Graphics (2000MHz)
- **Memory:** 32GB DDR4 3200MHz Dual Channel (2x16GB), expandable up to 64GB
- **Storage:** 512GB PCIe Gen 3.0 M.2 2280 SSD, expandable up to 4TB
- **Display Output:** Triple Screen Display (1x HDMI, 1x Type-C, 1x DPv1.4) supporting 4K@60Hz

- **Network:** Dual 2.5G LAN, WiFi 6E (2.5G/5G), Bluetooth 5.2
- **Cooling:** Dual Cooling Fans with Heatsink
- **Additional Functions:** Auto Power On, Wake On LAN, Compatible with Linux, Win 11 Pro, Ubuntu

4. SETUP GUIDE

4.1. Connecting to Power

1. Connect the power adapter cable to the DC Power Input port on the rear of the mini PC.
2. Plug the power cable into a wall outlet.

4.2. Connecting to a Display

The Nucbox M5 Plus supports up to three displays simultaneously:

TRIPLE ULTRA HD DISPLAY

4K@60Hz (HDMI + DP + USB-C Video)



HDMI



USB-C



DP



Image 4.1: Example setup demonstrating triple monitor connectivity using HDMI, DisplayPort, and USB-C.

1. Connect your monitor(s) to the mini PC using the provided HDMI cable or your own DisplayPort/USB-C cables.
 - For a single display, use either the HDMI, DisplayPort, or USB-C port.
 - For dual or triple displays, utilize a combination of the HDMI, DisplayPort, and USB-C ports.
2. Ensure your monitor(s) are powered on and set to the correct input source.

4.3. Connecting Peripherals

Connect your USB keyboard, mouse, and other peripherals to the available USB 3.2 or USB 2.0 ports on the mini PC.

4.4. Initial Boot and Operating System Setup

1. Press the power button on the front of the mini PC. The power indicator light will illuminate.
2. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial setup, including language, region, network connection, and user account creation.

5. OPERATING INSTRUCTIONS

5.1. Network Connectivity

The Nucbox M5 Plus offers robust network options:

Wired Connection (Dual 2.5G LAN)

For high-speed and stable network access, connect an Ethernet cable to either of the two 2.5G Gigabit LAN ports on the rear of the mini PC. These ports support speeds up to 2500 Mbps.

DUAL LAN HIGH SPEED ETHERNET

2.5GbE*2 RJ45 GIGABIT NETWORK

Read-write Speed



Transmission Speed



Image 5.1: Illustration of the dual 2.5G LAN ports and their high-speed capabilities.

Wireless Connection (WiFi 6E & Bluetooth 5.2)

The mini PC features integrated WiFi 6E for fast wireless internet and Bluetooth 5.2 for connecting wireless peripherals.

SUPER SPEED WI-FI 6E



SUPER SPEED WIFI 6E

| | Wi-Fi 6 | Wi-Fi 6E |
|--------------------|---|--|
| Frequency bands | 2.4GHz and 5GHz | 6GHz |
| Number of channels | 80MHz and 160MHz | 80MHz, 160MHz and 320MHz |
| Compatibility | devices not compatible with Wi-Fi 6E networks | backward compatible with Wi-Fi 6 and Wi-Fi 5 devices |
| Security | WPA3 | WPA2 and WPA3 |

Image 5.2: Overview of WiFi 6E and Bluetooth 5.2 capabilities, highlighting frequency bands and compatibility.

- **WiFi:** To connect to a wireless network, navigate to the network settings in Windows 11, select your desired WiFi network, and enter the password.
- **Bluetooth:** To pair Bluetooth devices, go to Bluetooth & devices settings in Windows 11, turn on Bluetooth, and select your device from the list to pair.

6. MAINTENANCE & UPGRADES

6.1. Accessing Internal Components

The Nucbox M5 Plus features a quick disassembly design, allowing easy access to internal components for upgrades without tools.

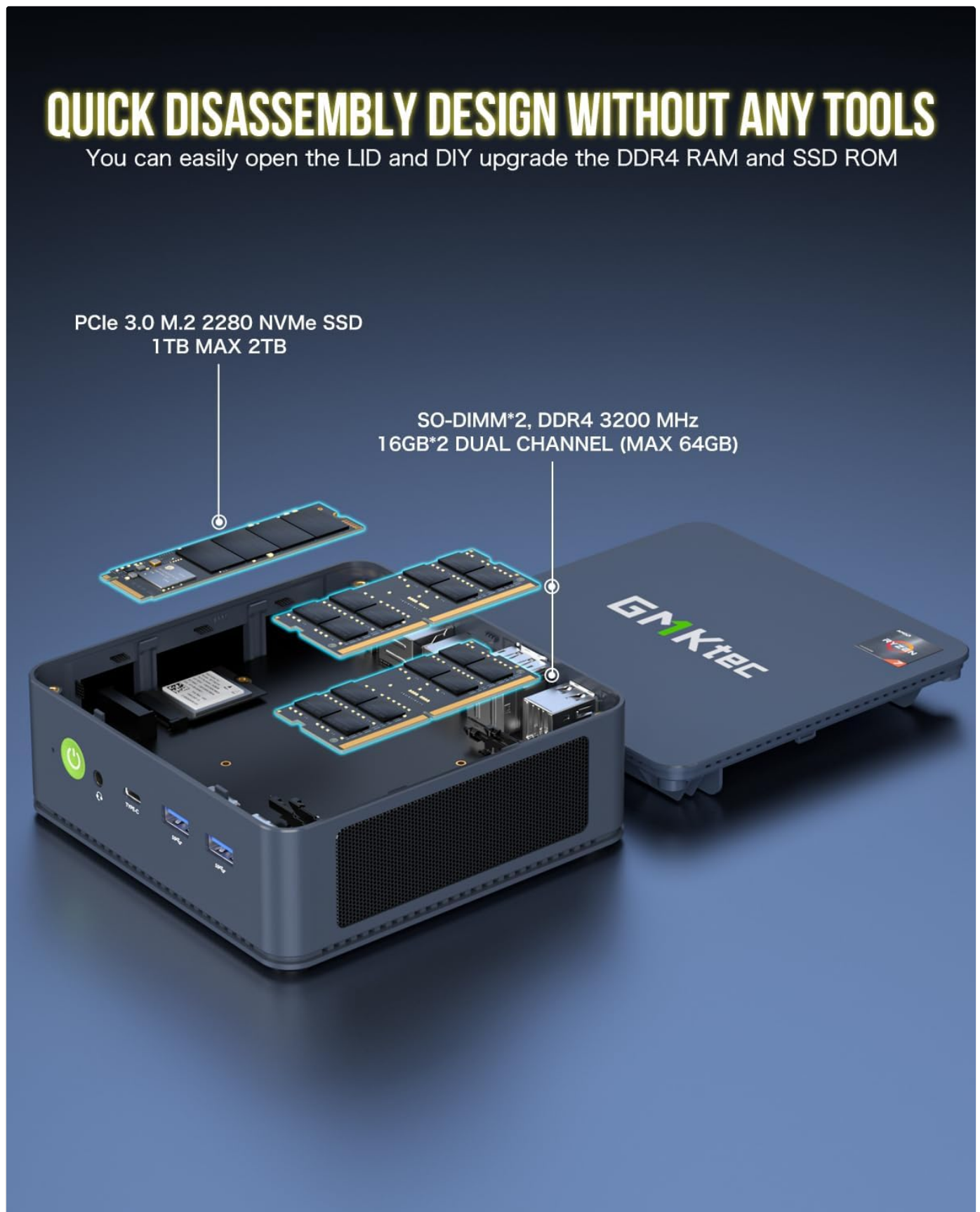


Image 6.1: Diagram illustrating the tool-free disassembly process to access and upgrade RAM and SSD.

PREMIUM PARTS & DESIGN

1TB PCIe M.2 2280 SSD UP TO 2TB!

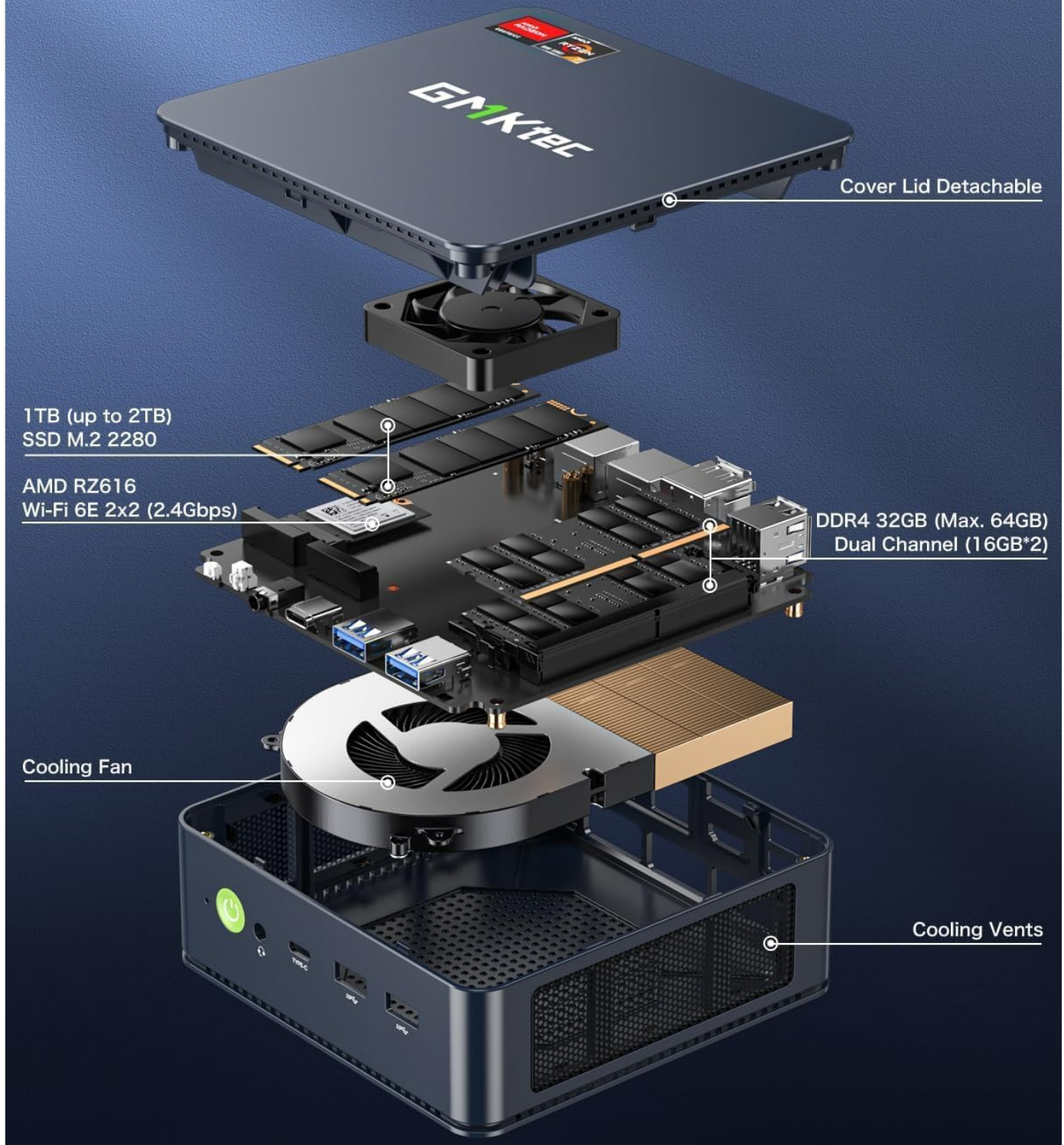


Image 6.2: An exploded view showing the main internal components, including the SSD, RAM, cooling fan, and Wi-Fi module.

6.2. RAM Upgrade

The Nucbox M5 Plus comes with 32GB (2x16GB) DDR4 RAM and can be upgraded to a maximum of 64GB (2x32GB).

1. Ensure the mini PC is powered off and disconnected from the power source.
2. Gently remove the top cover of the mini PC.
3. Locate the two SO-DIMM DDR4 slots.

- 4. Carefully unclip the existing RAM modules (if replacing) and insert the new modules, ensuring they are seated correctly.
- 5. Replace the top cover.

6.3. SSD Upgrade

The mini PC includes a 512GB M.2 2280 PCIe 3.0 SSD and supports expansion up to 4TB.

- 1. Ensure the mini PC is powered off and disconnected from the power source.
- 2. Gently remove the top cover.
- 3. Locate the M.2 2280 slot.
- 4. Insert the new M.2 SSD into the slot and secure it with the provided screw (if applicable).
- 5. Replace the top cover.

6.4. Cleaning

To ensure optimal performance and longevity, regularly clean the mini PC:

- Use a soft, dry cloth to wipe the exterior.
- For dust accumulation in vents, use compressed air to gently clear them. Ensure the PC is powered off during cleaning.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your GMKtec Nucbox M5 Plus.

| Problem | Possible Cause | Solution |
|----------------------------------|--|--|
| No power / PC does not turn on | Power cable not connected properly; Faulty power adapter; Power outlet issue. | Ensure power cable is securely connected to both the PC and the outlet. Test the power outlet with another device. Try a different power adapter if available. |
| No display on monitor | Display cable loose or incorrect port; Monitor input source incorrect; Monitor faulty. | Check display cable connections (HDMI, DP, USB-C). Ensure monitor is set to the correct input source. Test with a different monitor or cable. |
| No network connection (wired) | Ethernet cable loose or faulty; Router/modem issue; Network driver issue. | Check Ethernet cable connection. Restart your router/modem. Check network adapter status in Device Manager. |
| No network connection (wireless) | WiFi disabled; Incorrect password; Router/modem issue; WiFi driver issue. | Ensure WiFi is enabled in Windows settings. Verify WiFi password. Restart your router/modem. Update or reinstall WiFi drivers. |
| Bluetooth device not pairing | Bluetooth disabled; Device out of range; Device battery low; Driver issue. | Ensure Bluetooth is enabled. Move device closer to PC. Charge or replace device battery. Update or reinstall Bluetooth drivers. |
| System slow or unresponsive | Too many applications running; Low disk space; Overheating. | Close unnecessary applications. Free up disk space. Ensure proper ventilation and clean dust from vents. |

8. SPECIFICATIONS

Detailed technical specifications for the GMKtec Nucbox M5 Plus:

| Feature | Specification |
|---------------------------|--|
| Brand | GMKtec |
| Model Number | GMKtec Nucbox M5 Plus 32+512 |
| Color | Black |
| Operating System | Windows 11 Pro |
| Processor Brand | AMD |
| Processor Type | Ryzen 7 5825U |
| Processor Speed | 2 GHz (Base), up to 4.30 GHz (Boost) |
| Number of Cores | 8 |
| Memory (RAM) | 32 GB DDR4 (2 x 16 GB) |
| Maximum Memory | 64 GB |
| Storage (SSD) | 512 GB M.2 2280 PCIe 3.0 NVMe SSD |
| Max Storage Expansion | Up to 4 TB |
| Graphics Chipset Brand | AMD |
| Graphics Card Description | Integrated |
| Graphics Coprocessor | AMD Radeon Vega 8 |
| Display Resolution | 4096x2160 Pixels (4K) |
| Connectivity Type | Wi-Fi, Bluetooth |
| Wireless Technology | 802.11a/b/g/n/ac/ax (WiFi 6E), Bluetooth 5.2 |
| Hardware Interface | HDMI, USB, DisplayPort, USB-C, Ethernet |
| Number of HDMI Ports | 1 |
| Number of USB 2.0 Ports | 2 |
| Number of USB 3.0 Ports | 2 |
| LAN Ports | 2 x 2.5G Gigabit Ethernet (RJ45) |
| Product Dimensions | 18.8 x 18.4 x 10.7 cm |
| Item Weight | 1.44 kilograms |





9. WARRANTY AND SUPPORT

Each GMKtec Nucbox M5 Plus Mini PC is covered by a manufacturer's warranty of 1 year from the date of purchase. This warranty covers defects in design or manufacturing.

For technical assistance, troubleshooting, or warranty claims, please contact GMKtec customer support. Refer to the official GMKtec website or your purchase documentation for specific contact details.

Note: No official product videos from the seller were identified in the provided data for embedding.

Related Documents

| | |
|---|---|
|  | <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>GMKtec M5 Mini PC: AMD Ryzen 7, 32GB RAM, 1TB SSD - Zmogljivost in Kompaktnost</p> <p>Odkrijte GMKtec M5 Plus Mini PC z AMD Ryzen 7 5825U procesorjem, 32GB DDR4 RAM in 1TB NVMe SSD. Idealen za delo, igranje in večopravilnost z napredno povezljivostjo WiFi 6E in dvojnimi 2.5G LAN.</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> |