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GMKtec G10

GMKtec Nucbox G10 Mini PC User Manual

Model: G10 with AMD Ryzen 5 3500U Processor

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your GMKtec Nucbox G10 Mini PC. The Nucbox G10 is a compact and powerful desktop computer designed for various applications, from office tasks to multimedia entertainment, featuring an AMD Ryzen 5 3500U processor, 16GB DDR4 RAM, and a 1TB NVMe SSD.

2. PACKAGE CONTENTS

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

- GMKtec Nucbox G10 AMD Ryzen 5 3500U Mini PC Computer
- Power Supply & Cable
- HDMI Cable
- VESA Mount and Screws
- User Manual (this document)

Retail Boxed Packaging



1. Nucbox G10 Mini PC

2. Power Supply & Cable

3. User Manual

4. HDMI Cable

5. VESA Mount with Screws

Image: Retail Boxed Packaging. This image displays the GMKtec Nucbox G10 Mini PC, power supply, HDMI cable, VESA mount, screws, and user manual, illustrating the complete contents of the product package.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Processor:** AMD Ryzen 5 3500U (4 Cores, 8 Threads, up to 3.70GHz Turbo Boost)

- **Graphics:** Integrated AMD Radeon Vega 8 Graphics (1200 MHz)
- **Memory:** 16GB Dual Channel DDR4 RAM (expandable up to 64GB)
- **Storage:** 1TB M.2 2280 NVMe SSD (expandable up to 16TB via dual M.2 2280 PCIe 3.0 slots)
- **Network:** 2.5GbE Ethernet, WiFi 5, Bluetooth 5.0
- **Display Output:** Triple 4K display support via HDMI 2.1, DisplayPort 1.4, and Full Function USB-C
- **Cooling:** Silent Turbo Cooling Fan system



Image: Nucbox G10 Feature Overview. This image provides a visual summary of the mini PC's core components including the AMD Ryzen 5 3500U CPU, Radeon Vega 8 Graphics, DDR4 RAM, M.2 SSD, 2.5GbE LAN, WiFi 5, Bluetooth 5.0, triple display support, and cooling system.

3.2 Ports and Connectors

The Nucbox G10 features a comprehensive set of ports for connectivity:

- **Front:** 1x CTIA Audio Jack, 2x USB 3.2 (5Gbps), 1x Power Button
- **Rear:** 1x Type-C (PD Only), 1x USB 2.0, 1x 2.5G Giga LAN, 1x HDMI 2.1 (4K@60Hz), 1x DP 1.4 (4K@60Hz), 1x Full Function USB-C (PD/DP/Data), 1x Kensington Lock slot

AMD Ryzen 5 3500U Processor



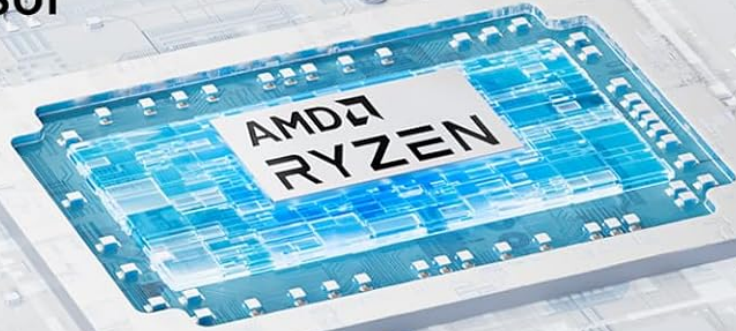
4 Cores
Ryzen 5



8 Threads
4MB Cache



3.70GHz
Turbo Boost



Silent Turbo Cooling Fan



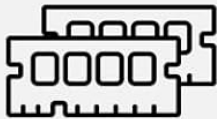
Handheld Size
0.42L Volume



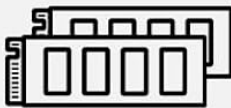
AMD Radeon Vega 8
Graphics
1200MHz



Compatible with
Windows 11 Pro/ Windows 10/ Linux



16GB
Dual DDR4



1TB
M.2 2280 SSD

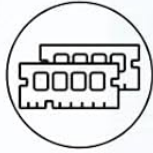
WIFI + Bluetooth



Image: Front Panel Ports. This image shows the front of the Nucbox G10, highlighting the power button, two USB 3.2 ports, and the CTIA audio jack.

DUAL CHANNEL MEMORY PERFORMANCE

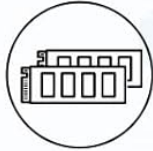
HIGH CAPACITY STORAGE



RAM



DDR4 Expandable to 64GB



STORAGE



M.2 2280 Expandable to 16TB



Image: Rear Panel Ports. This image illustrates the rear of the Nucbox G10, detailing the USB-C (PD Only), USB 2.0, 2.5G LAN, HDMI 2.1, DisplayPort 1.4, Full Function USB-C, and Kensington Lock slot.

4. SETUP GUIDE

4.1 Connecting Peripherals

1. **Monitor:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort, or USB-C ports. The Nucbox

G10 supports up to three 4K displays simultaneously.

2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to the available USB ports.
3. **Network:** For a wired connection, connect an Ethernet cable from your router/modem to the 2.5GbE LAN port. For wireless, ensure your WiFi network is available.
4. **Audio:** Connect speakers or headphones to the 3.5mm audio jack on the front panel if needed.

SILENT COOLING SYSTEM

Whisper-Cool – Silent Breeze, Max Performance.

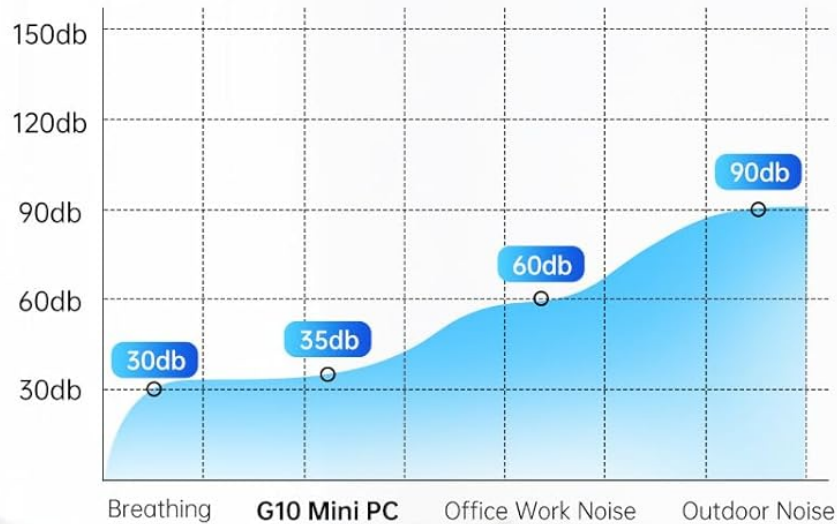


Image: Triple Display Setup. This image demonstrates the Nucbox G10 connected to two vertical monitors and a tablet, showcasing its triple display capability for enhanced productivity.

4.2 Power Connection

Connect the provided power adapter to the DC-in port on the Mini PC, then plug the power cable into a wall outlet. The Mini PC is designed for low power consumption.

4.3 Initial Boot

Press the power button on the front panel. The Mini PC will boot into the pre-installed Windows 11 Pro operating system. Follow the on-screen instructions for initial Windows setup.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press the power button once.
- **Power Off:** From Windows, go to Start > Power > Shut down. Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2 Operating System

Your Nucbox G10 comes with Windows 11 Pro pre-installed. Ensure you keep your operating system updated for optimal performance and security.

5.3 Network Connectivity

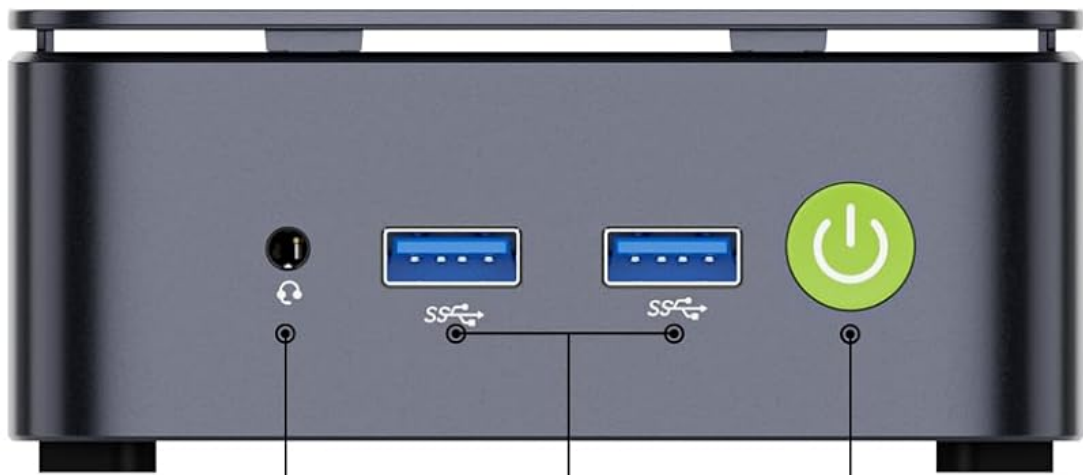
- **Wired (Ethernet):** Once the Ethernet cable is connected, the system should automatically detect the network.
- **Wireless (Wi-Fi):** In Windows, click the Wi-Fi icon in the taskbar, select your network, enter the password, and connect.
- **Bluetooth:** To connect Bluetooth devices, go to Windows Settings > Bluetooth & devices, and pair your device.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation openings are free from dust to maintain optimal cooling performance. Do not use liquid cleaners directly on the device.

RICH INTERFACE



1*Type-C (PD Only) 1*USB2.0 1*HDMI2.1(4K@60Hz)

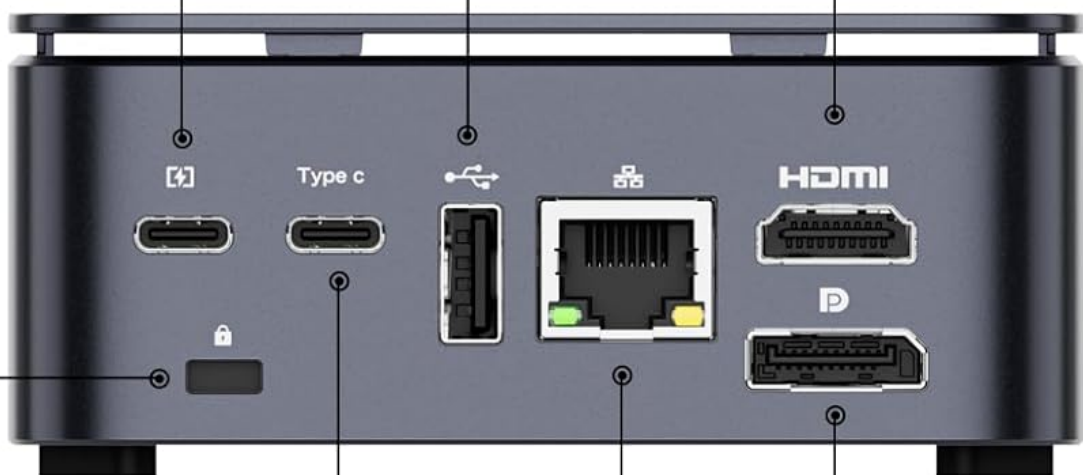


Image: Ultra Efficient Cooling System. This image provides an internal view of the Nucbox G10, highlighting the silent turbo cooling fan designed for efficient heat dissipation.

6.2 Software Updates

Keep your Windows operating system and drivers updated to ensure system stability, security, and performance. Windows Update can be accessed via Settings > Windows Update.

6.3 Storage and Memory Expansion

The Nucbox G10 supports memory expansion up to 64GB DDR4 RAM and storage expansion up to 16TB via its dual M.2 2280 PCIe 3.0 slots. Consult a qualified technician for hardware upgrades to avoid voiding your warranty or damaging the device.

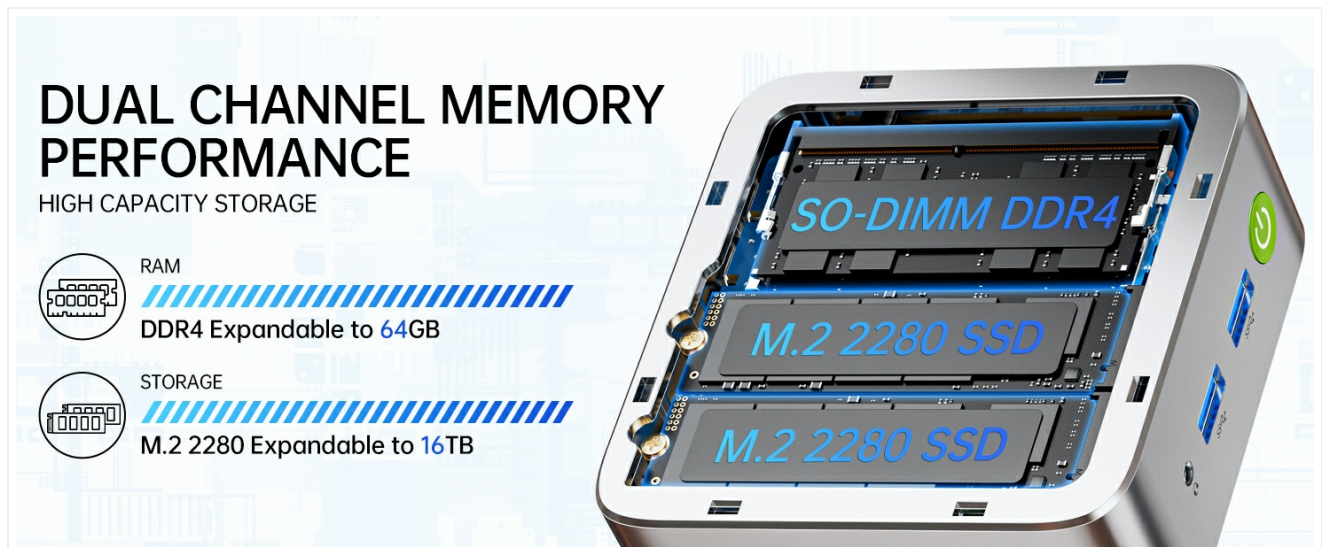


Image: Dual Channel Memory Performance and High Capacity Storage. This diagram illustrates the internal layout for SO-DIMM DDR4 RAM and M.2 2280 SSDs, indicating their expandability.

7. TROUBLESHOOTING

If you encounter issues with your Mini PC, refer to the following common problems and solutions:

• No Power:

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.

• No Display:

- Check that the HDMI, DisplayPort, or USB-C cable is firmly connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try connecting to a different display or using a different cable.

• Network Connectivity Issues:

- **Wired:** Check the Ethernet cable connection. Restart your router/modem.
- **Wireless:** Ensure Wi-Fi is enabled in Windows settings. Verify your Wi-Fi password. Restart your router.

• Slow Performance:

- Close unnecessary applications running in the background.
- Ensure the system has adequate ventilation and is not overheating.

- Check for and install any pending Windows updates or driver updates.
- Run a disk cleanup to free up storage space.

8. SPECIFICATIONS

Feature	Specification
Brand	GMKtec
Model Name	G10
Operating System	Windows 11 Pro
CPU Model	AMD Ryzen 5 3500U
CPU Speed	3.7 GHz (Boost)
Processor Count	4
Graphics Coprocessor	AMD Radeon Vega 8 Graphics 1200 MHz
RAM Memory Installed	16 GB DDR4
RAM Memory Maximum Size	64 GB
Memory Speed	2400 MT/s
Memory Storage Capacity	1 TB NVMe SSD
Hard Disk Description	Dual Slot M.2 2280 PCIE Max. 16TB
Connectivity Technology	HDMI 2.1, RJ45 2.5GbE LAN, USB 3.2, USB-C (DP/DATA/PD), WIFI5/ BT 5.0
Wireless Compatibility	802.11a/b/g/n/ac (WiFi 5), Bluetooth 5.0
Video Output	HDMI 2.1, DisplayPort, Type-C (Triple Display)
Display Resolution Maximum	4096 × 2160 Pixels (4K)
Total USB Ports	4 (2x USB 3.2, 1x USB 2.0, 1x USB-C Full Function)
Power Consumption	25 Watts (Typical)
Item Dimensions	4.1 x 3.8 x 1.7 inches
Item Weight	0.95 Kilograms
Cooling Method	Dual Cooling Fan
Additional Features	RTC Wake, Auto Power On, Wake On LAN, PXE Boot

9. WARRANTY AND SUPPORT

9.1 Warranty Information

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

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your GMKtec Nucbox G10 Mini PC, please contact GMKtec customer support. You can typically find contact information on the official GMKtec website or through the seller's contact page where you purchased the product (e.g., [GMKtec-Direct on Amazon](#)).