GMKtec JP Nucbox G10

GMKtec G10 Mini PC User Manual

Model: JP Nucbox G10

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your GMKtec G10 Mini PC. Please read this manual thoroughly before using your device to ensure optimal performance and longevity.

Image: Front and rear view of the GMKtec G10 Mini PC, highlighting its compact design and various ports.

2. PRODUCT OVERVIEW

The GMKtec G10 Mini PC is a compact and powerful computing solution designed for various tasks, from everyday office work to multimedia entertainment. It features an AMD Ryzen 5 3500U processor, ample memory, and flexible storage options.

2.1 Key Features

- **High-Performance AMD Ryzen 5 3500U:** Equipped with a 4-core, 8-thread processor with a max boost clock of 3.7GHz, offering robust performance for multitasking and light editing.
- **Triple Display Output:** Supports up to three simultaneous 4K displays via HDMI 2.1, DisplayPort 1.4, and USB-C (DP Alt Mode).
- **Expandable Storage:** Includes a 256GB NVMe SSD and supports expansion up to 16TB (8TB x 2) via additional M.2 slots.
- **Ample Memory:** Comes with 16GB DDR4 RAM (8GB x 2) and is expandable up to 64GB across two SO-DIMM slots.
- **High-Speed Connectivity:** Features 2.5G wired LAN, Wi-Fi 5, and Bluetooth 5.0 for stable and fast network connections.
- **Compact & Quiet Design:** Palm-sized form factor with an efficient, silent cooling fan, ideal for space-constrained or quiet environments.
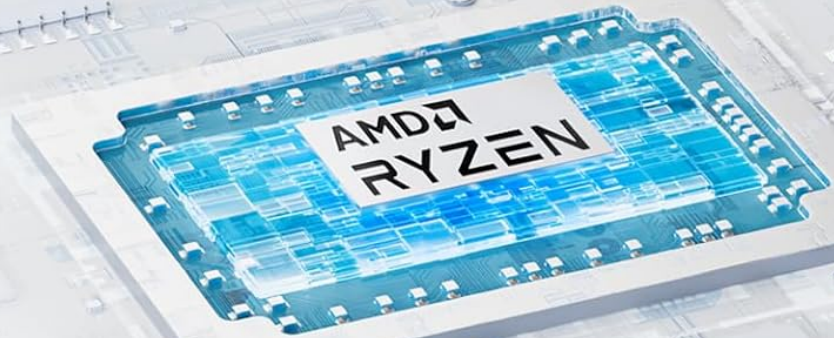
Image: An overview of the GMKtec G10 Mini PC's main features, including its AMD Ryzen 5 3500U processor, 16GB DDR4 RAM, 256GB SSD, compact size, quiet turbo cooling fan, and support for Windows 11 Pro/Windows 10/Linux.

2.2 Processor and Graphics

The GMKtec G10 is powered by an AMD Ryzen 5 3500U processor, featuring 4 cores and 8 threads, with a maximum boost clock of 3.7GHz. It integrates Radeon Vega 8 Graphics, providing capable performance for daily

tasks and multimedia.

AMD Ryzen 5
3500U プロセッサー

４コア
Ryzen 5

８スレッド
4MBキャッシュ

最大3.70GHz
ターボブースト対応

省電力ながら高性能なクアッドコアプロセッサーで、同時マルチスレッディング（SMT）に対応しています。ミニデスクトップ向けに優れたマルチタスク性能を発揮し、日常使用でも快適なパフォーマンスを実現します。
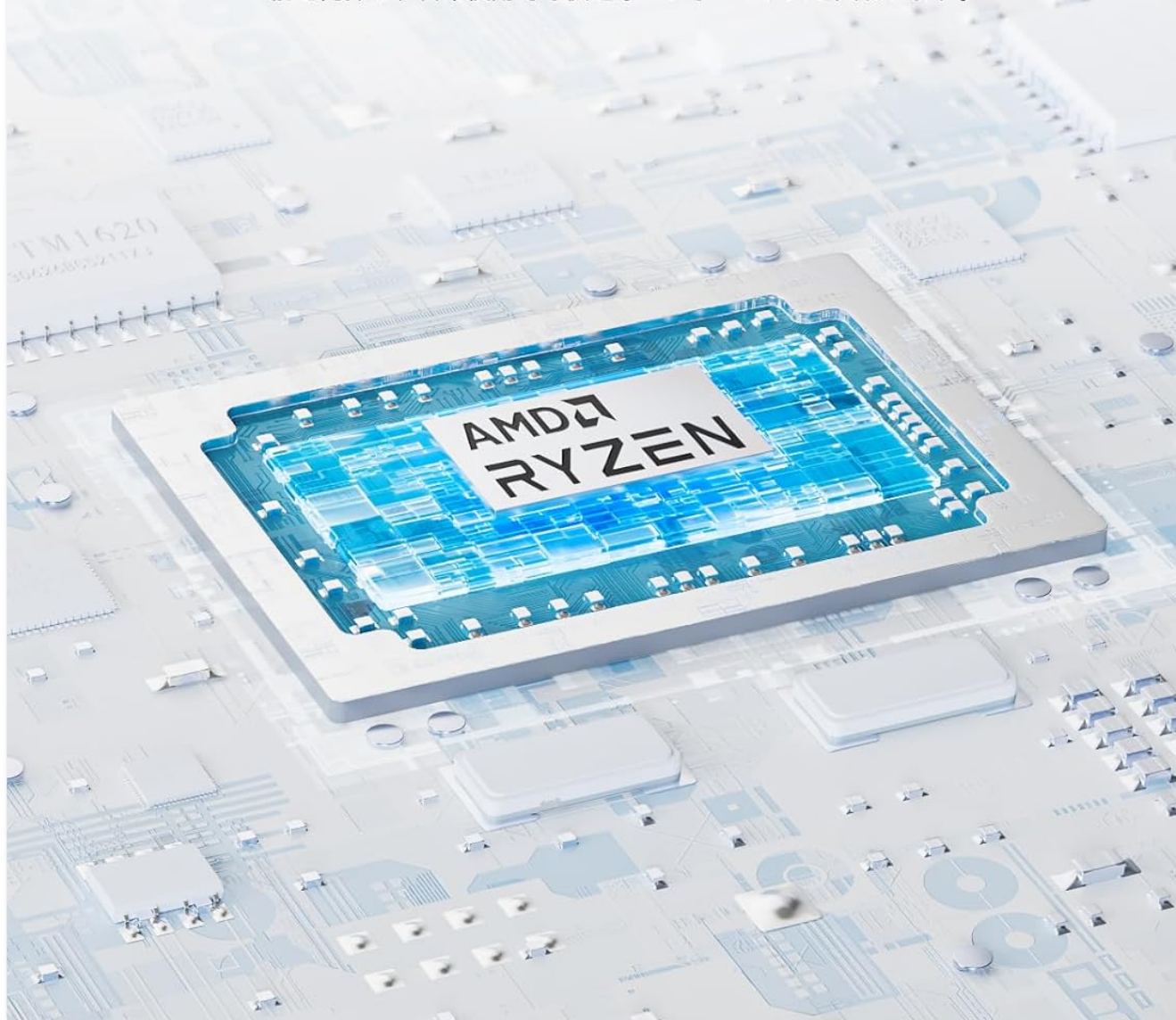
Image: A close-up of the AMD Ryzen 5 3500U processor, detailing its core count, thread count, cache size, and maximum clock speed.

2.3 Ports and Connectivity

The Mini PC offers a comprehensive set of ports for connecting various peripherals and displays:

- **Front Ports:** 3.5mm Audio Jack, USB 3.2 Gen1 x 2, Power Button.
- **Rear Ports:** Kensington Lock, Type-C (PD dedicated), USB 2.0 x 1, Type-C (DP / Data / PD compatible), 2.5G Gigabit LAN (RJ45) x 1, HDMI 2.1 (4K@60Hz), DisplayPort 1.4 (4K@60Hz).

豊富なインターフェース

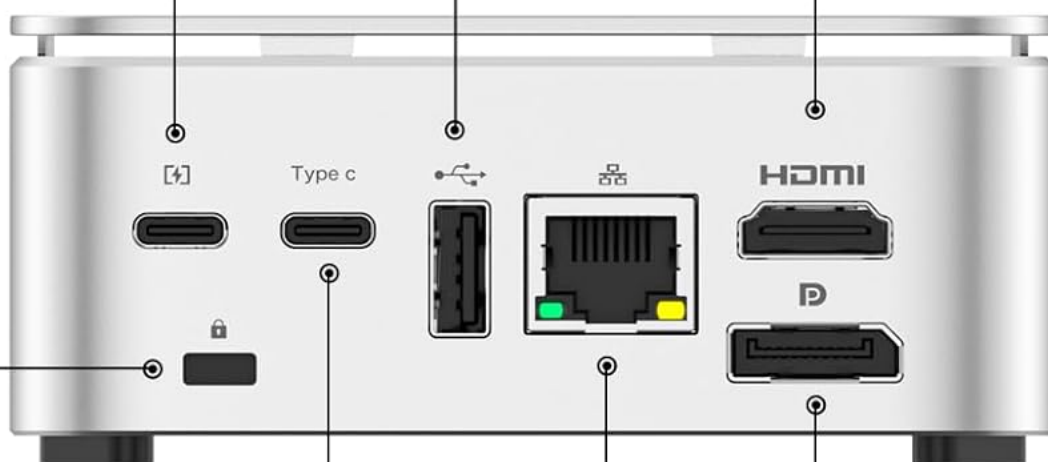プログラム機器 / 開発機器　　テレビ / モニター　　スピーカー　　プロジェクター

キーボード&マウス　　NAS　　プリンター　　ヘッドセット

CTIA準拠オーディ
オジャック ×1　　USB 3.2 ×2
（5Gbps）　　電源ボタン ×1

Type-C（PD専用）×1　　USB 2.0 ×1　　HDMI 2.1（4K@60Hz対応）×1

ケンジントンロック ×1

Type-C
（DP / データ通信 / PD対応）×1

2.5Gギガビッ
トLANポート ×1

DisplayPort 1.4
（4K@60Hz対応）×1

Image: A visual guide to the front and rear ports of the GMKtec G10 Mini PC, including USB, audio, power, HDMI,
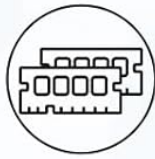
2.4 Memory and Storage

The GMKtec G10 comes with 16GB of DDR4 RAM (8GB x 2) and a 256GB NVMe SSD. Both memory and storage are expandable to meet future needs.

- **Memory:** Two SO-DIMM slots support up to 64GB DDR4 RAM.
- **Storage:** Two M.2 2280 slots support up to 16TB (8TB x 2) of storage.

デュアルチャネルメモリ性能

大容量ストレージ

RAM

DDR4 最大**64GB**まで拡張可能
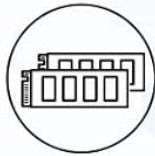
STORAGE

ストレージ拡張可能
M.2 2280 スロット最大**16TB**まで拡張可能

SO-DIMM DDR4

SO-DIMM DDR4

M.2 2280 SSD
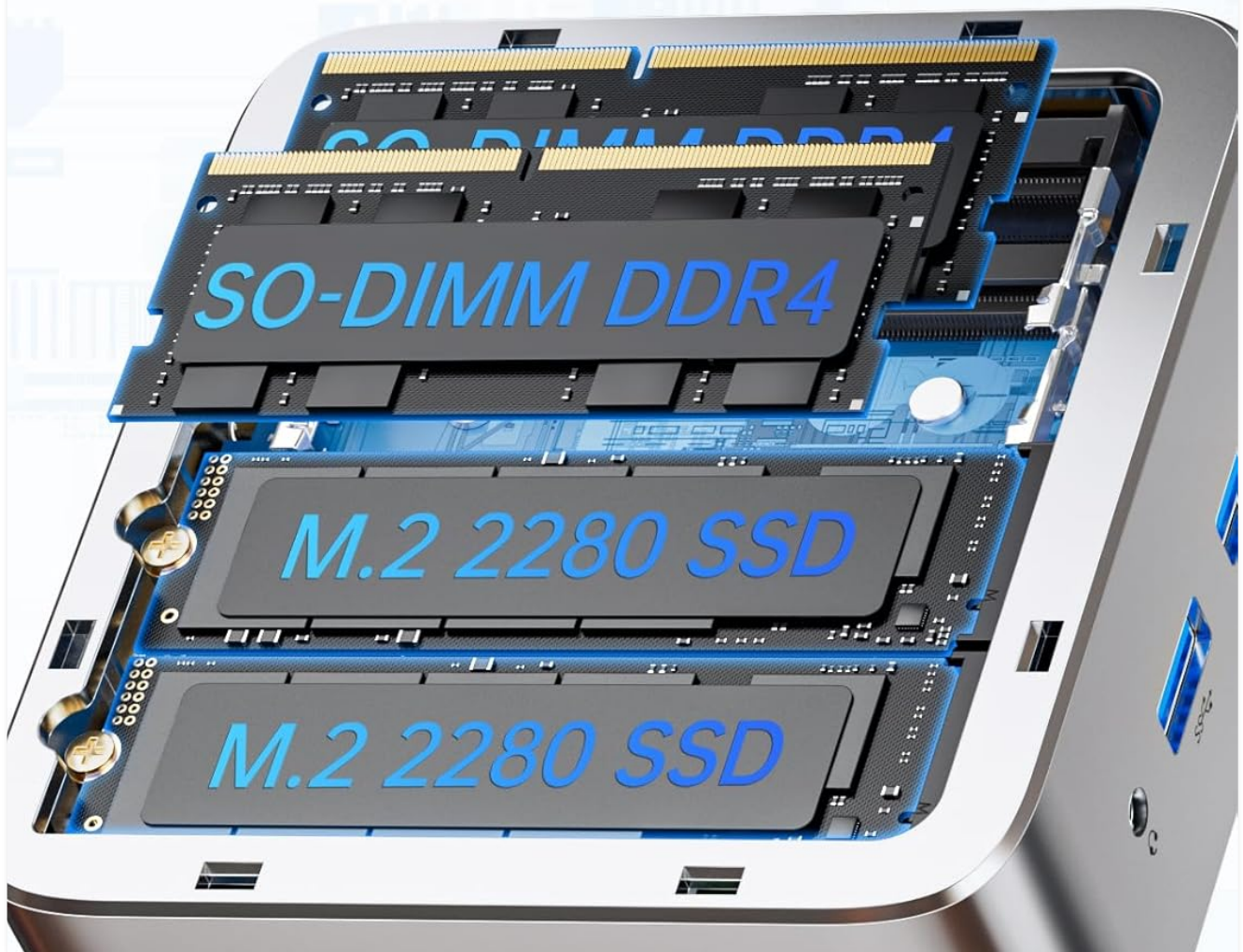
M.2 2280 SSD

Image: An exploded view illustrating the dual-channel DDR4 memory and M.2 2280 SSD slots, highlighting the upgrade potential for RAM up to 64GB and storage up to 16TB.

3. SETUP GUIDE

3.1 Unboxing and Package Contents

Carefully unbox your GMKtec G10 Mini PC. The package should contain the following items:

- Nucbox G10 Mini PC
- Power Adapter & Cable
- HDMI Cable
- VESA Mount & Screws
- User Manual (this document)

パッケージ内容

1.Nucbox G10 ミニPC

2.電源アダプター＆ケーブル

3.ユーザーマニュアル

4.HDMIケーブル

5.VESAマウント＆ネジ

Image: The complete package contents of the GMKtec G10 Mini PC, laid out for easy identification.

3.2 Initial Power-On and Connections

To set up your Mini PC for the first time:

1. Connect the power adapter to the DC-in port on the Mini PC and plug it into a power outlet.
2. Connect your monitor(s) to the HDMI, DisplayPort, or Type-C video output ports.
3. Connect your keyboard and mouse to the available USB ports.
4. Press the power button on the front of the Mini PC to turn it on.

Watch this video for a visual guide on initial setup and connections:

Video: An overview of the GMKtec G10 Mini PC, demonstrating its compact size, various ports, and ease of connection to a display for initial use.

3.3 VESA Mount Installation

The GMKtec G10 supports VESA mounting, allowing you to attach it to the back of a compatible monitor for a clutter-free workspace.

1. Attach the VESA mount bracket to the back of your monitor using the provided screws.
2. Secure the Mini PC to the VESA mount.

For a visual demonstration of VESA mount installation, refer to this video (note: this video features a similar model, but the VESA mounting process is generally the same):

Video: Demonstration of VESA mount installation for a mini PC. The process shown is applicable to the GMKtec G10 for mounting behind a monitor.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Power On:** Press the power button on the front of the device.
- **Power Off:** Use the operating system's shutdown function. Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

4.2 Multi-Display Setup

The GMKtec G10 supports connecting up to three displays simultaneously, enhancing productivity for work and entertainment.

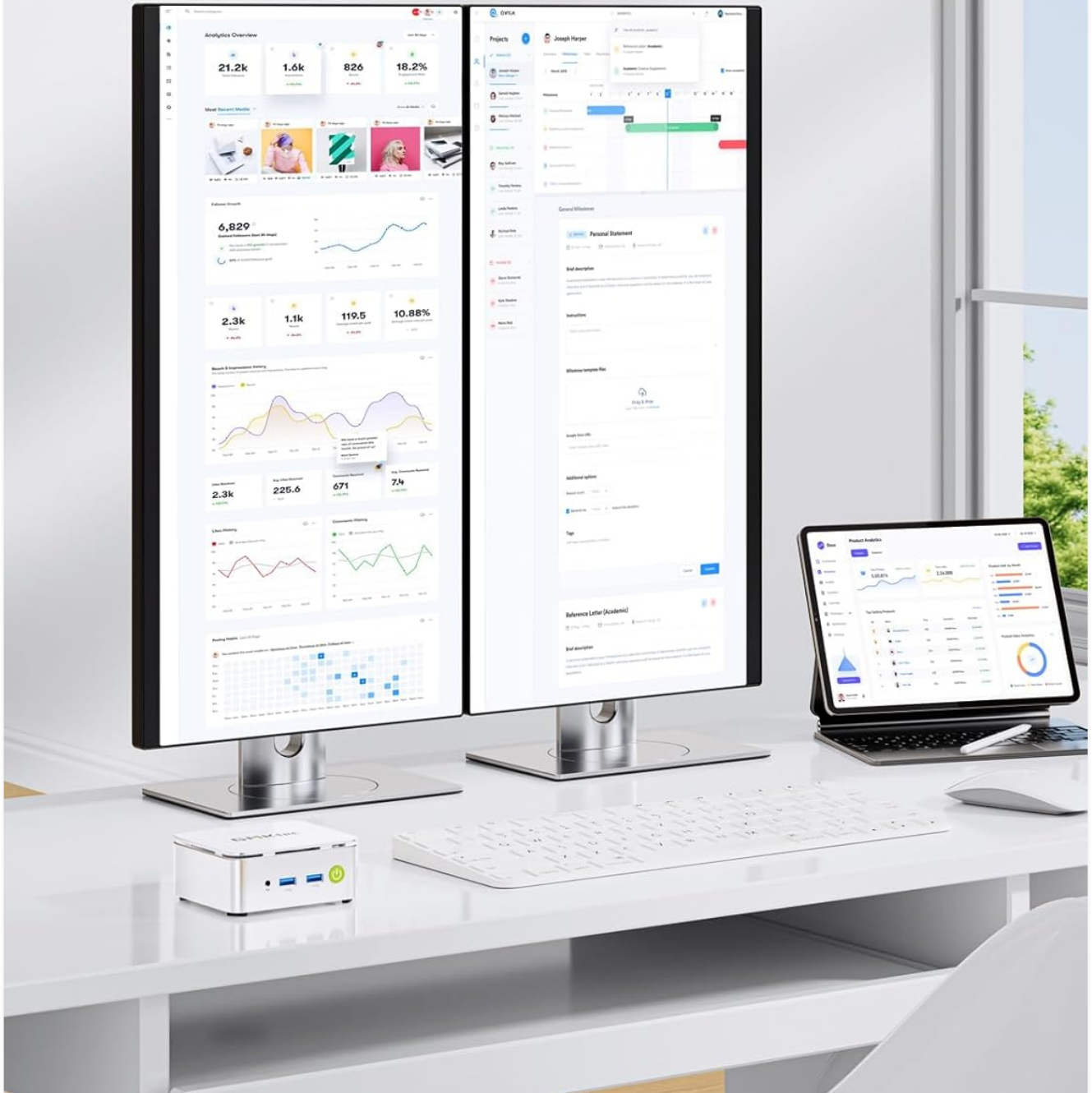*Image: A workstation setup showcasing the GMKtec G10 Mini PC driving two large monitors and a tablet, illustrating its triple HD output capability for enhanced productivity.*

4.3 Network Connectivity

- **Wired LAN:** Connect an Ethernet cable to the 2.5G Gigabit LAN port for high-speed internet access.
- **Wi-Fi:** The device supports Wi-Fi 5. Configure your wireless network settings through the operating system.

- **Bluetooth:** Bluetooth 5.0 is supported for connecting wireless peripherals like keyboards, mice, and headphones.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation grilles are free from dust to maintain optimal cooling performance.

5.2 Component Upgrades (RAM & SSD)

The GMKtec G10 allows for upgrades to its RAM and M.2 SSD. Always ensure the device is powered off and unplugged before performing any internal modifications.
For a visual guide on upgrading RAM and SSD, please refer to this video (note: this video features a similar model, but the general procedure for installing RAM and M.2 SSDs is comparable):

Video: A tutorial demonstrating the process of expanding DDR memory and replacing an SSD in a mini PC. This guide can be used as a reference for upgrading the GMKtec G10.

5.3 Cooling System

The Mini PC features a silent cooling fan designed to maintain optimal operating temperatures while minimizing noise.

静音冷却システム

Whisper-Cool技術 — 静音ブリーズで冷却しながら、
パフォーマンスを最大限に発揮。

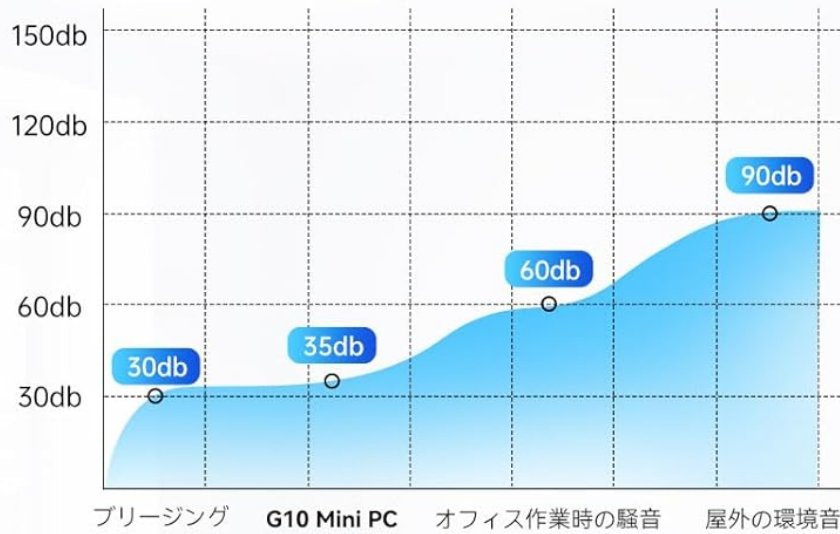|		
150db		
120db		
90db		90db
60db	60db	
30db	35db	
30db		

ブリージング　　G10 Mini PC　　オフィス作業時の騒音　　屋外の環境音

Image: A graph comparing the noise level of the G10 Mini PC (35dB) to other environments, highlighting its quiet operation, alongside a user working in a quiet room.

超高効率冷却システム

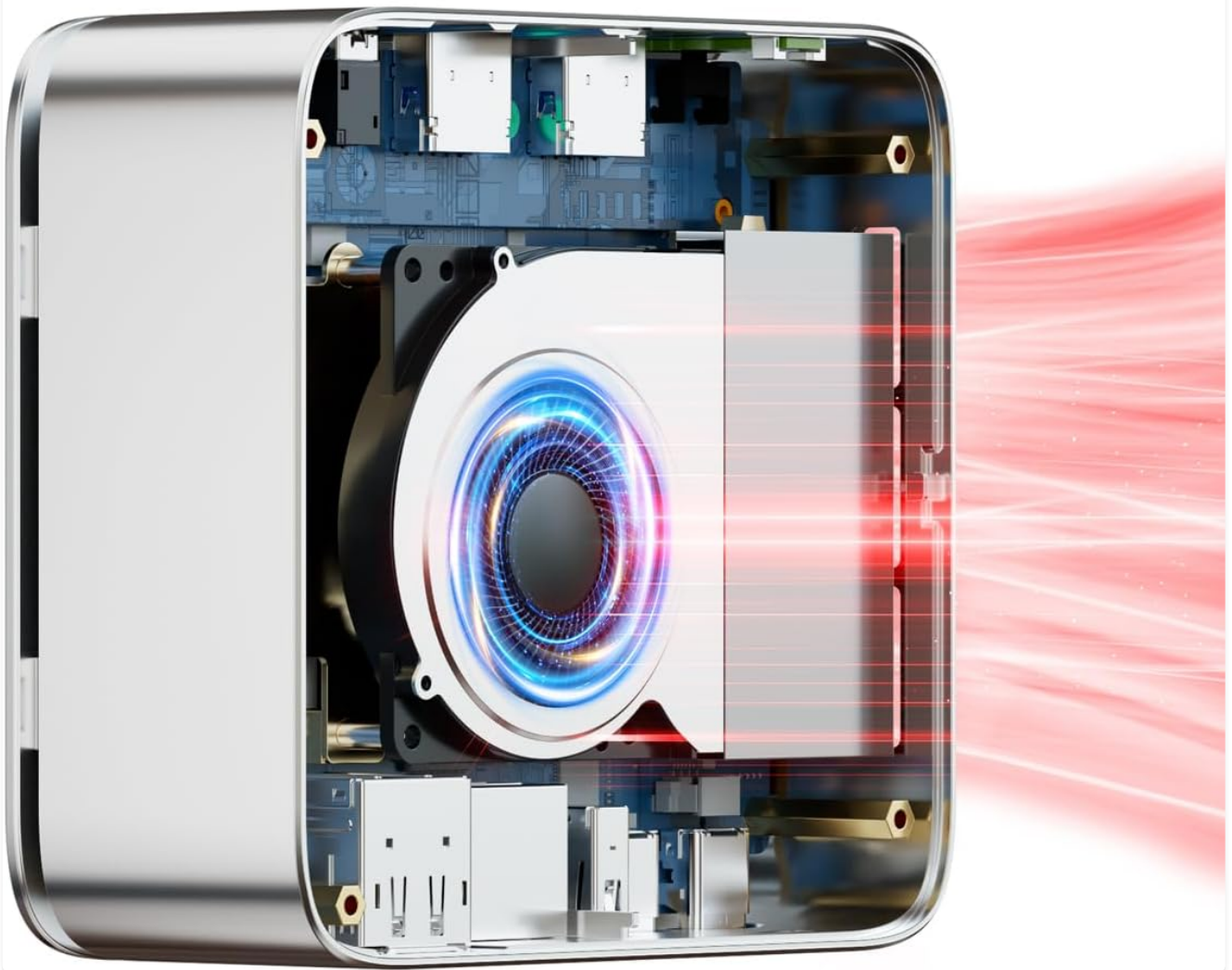*Image: An internal diagram of the GMKtec G10's high-efficiency cooling system, showing the airflow and heat sink design.*

6. TROUBLESHOOTING

6.1 No Display Output

- Ensure all display cables (HDMI, DP, Type-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 using a different cable.

6.2 Wi-Fi Connectivity Issues

- Check if Wi-Fi is enabled in the operating system settings.
- Ensure the Mini PC is within range of your wireless router.
- Restart your wireless router and the Mini PC.
- Update Wi-Fi drivers if available.

6.3 System Unresponsive

- If the system becomes unresponsive, press and hold the power button for 5 seconds to force a shutdown. Wait a few moments, then power it back on.
- Ensure adequate ventilation to prevent overheating.

6.4 External Graphics Card Connection

If you are connecting an external graphics card via Oculink, ensure the Mini PC is powered off before connecting or disconnecting the external GPU. Hot-plugging Oculink is not supported and may damage the motherboard.
For a demonstration of connecting an external graphics card, refer to this video (note: this video features a similar model, but the connection method is relevant):

Video: A guide on how to connect an AD-GP1 external graphics board to a GMKtec M7 Mini PC. This demonstrates the Oculink connection process, which is similar for the G10.

7. SPECIFICATIONS

Feature	Specification
Brand	GMKtec
Model Series	JP Nucbox G10
Product Dimensions	9.8 x 10.3 x 4.2 cm; 284 g
Color	White
CPU Brand	AMD
CPU Type	Ryzen 5 3500U
CPU Speed	3.7 GHz
Processor Count	4
RAM Memory Type	DDR4, SO-DIMM x 2
Max Memory Capacity	64 GB
Memory Clock Speed	2400 MHz
Hard Drive Capacity	256 GB
Hard Drive Type	SSD
Hard Drive Interface	PCIe x 4
Graphics Accelerator	Radeon Vega 8 Graphic

Feature	Specification
GPU Brand	AMD
Graphics Card Type	Integrated
VRAM Type	SODIMM
VRAM Capacity	16 GB
Connectivity	Bluetooth, Wi-Fi 5, 2.5G LAN
USB 2.0 Ports	1
USB 3.0 Ports	2
HDMI Ports	1
Optical Drive Type	None
Operating System	Windows 11 Pro / Linux
Included Battery	Yes
Lithium Battery Energy Content	5 Watt Hours
Lithium Battery Packaging	Battery contained in equipment
Lithium Battery Weight	0.7 Grams
Lithium Ion Battery Count	1
Product Use	Gaming, Business, Multimedia
Personal Computer Design Type	Mini PC
Installed RAM Memory Size	16 GB

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official GMKtec website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Related Documents - JP Nucbox G10

[GMKtec NUCBOX7/7S User Manual](#)
User manual for the GMKtec NUCBOX7 and NUCBOX7S mini PCs, detailing specifications, safety precautions, connection steps, and after-sales support.

GMKtec NUCBOX G2 PLUS User Manual and Safety Information

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.

GMKtec NUCBOX M5 PLUS User Manual

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.

GMKtec NUCBOX M5 PLUS User Manual and Safety Guide

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.

GMKtec Mini PC User Manual & Specifications: NUCBOX G9, K10, M6 Series

Comprehensive user manual and technical specifications for GMKtec Mini PCs, including models like NUCBOX G9, K10, and M6. Covers setup, hardware details, safety guidelines, and compliance information.

Návod k obsluze GMKtec NUCBOX G3: Specifikace a Bezpečnostní Pokyny

Kompletní uživatelský manuál pro GMKtec NUCBOX G3 mini PC. Obsahuje informace o specifikacích, připojení, bezpečnosti, údržbě a záruce produktu.