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## GMKtec GMKTEC EVO-X2-JP

# GMKtec EVO-X2 Mini PC User Manual

Model: GMKTEC EVO-X2-JP

## 1. INTRODUCTION

The GMKtec EVO-X2 is a high-performance mini PC designed for demanding tasks, including AI computing, 4K video editing, 3D modeling, and VR content creation. It features the latest AMD Ryzen AI Max+ 395 processor, integrated Radeon 8060S graphics, and advanced connectivity options, all within a compact and space-saving design.



Figure 1: The GMKtec EVO-X2 Mini PC, showcasing its compact form factor and sleek design.

This manual provides essential information to help you set up, operate, and maintain your EVO-X2 Mini PC, ensuring optimal

performance and longevity.

## 2. SETUP GUIDE

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### 2.1 Package Contents

Before you begin, ensure all items are present in the package:

- EVO-X2 Mini PC Unit
- Power Adapter
- HDMI Cable
- User Manual (this document)

### 2.2 Connecting Peripherals

Follow these steps to connect your display, keyboard, and mouse:

1. Connect your monitor(s) to the HDMI 2.1, DP 1.4, or USB4 ports. The device supports up to four simultaneous displays.
2. Connect your keyboard and mouse to the available USB 3.2 or USB2.0 ports.
3. For wired network access, connect an Ethernet cable to the 2.5Gbps LAN port.
4. Connect the power adapter to the DC IN port on the Mini PC, then plug it into a power outlet.

# 4画面同時出力

最大8K解像度対応



HDMI 2.1 (8K 60HZ)



DP 1.4 HBR3 (8K 60HZ)



USB4.0 (40Gpbs)



Figure 2: Overview of the Mini PC's front and rear ports, including USB, HDMI, DisplayPort, and LAN connections.

## 2.3 Initial Power On

Press the power button located on the front of the Mini PC. The system will boot up, and you will be guided through the initial Windows 11 Pro setup process.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Processor and AI Performance

The EVO-X2 is equipped with the AMD Ryzen AI Max+ 395 processor, featuring 16 cores and 32 threads, with a boost clock up to 5.1GHz. Its integrated XDNA 2 NPU delivers up to 126 TOPS of AI computing power, making it ideal for local LLM processing, image generation, and deep learning applications.

# AMD Ryzen AI Max+ 395



**5.1GHz**  
最大周波数



**16** コア &  
**32** スレッド



**64** MB  
L3キャッシュ



**45~140W**  
TDP

AMD Ryzen AI Max+ 395で、圧倒的なパワーを体感。  
革新的なZen 5アーキテクチャを採用し、16コア32スレッドで最大  
5.1GHzの高クロックを実現。  
TSMCの先進的な4nm FinFETプロセスで製造され、16MBのL2キャッシ  
ュと64MBのL3キャッシュを搭載。  
シームレスなマルチタスク処理と比類なき並列性能を提供します。

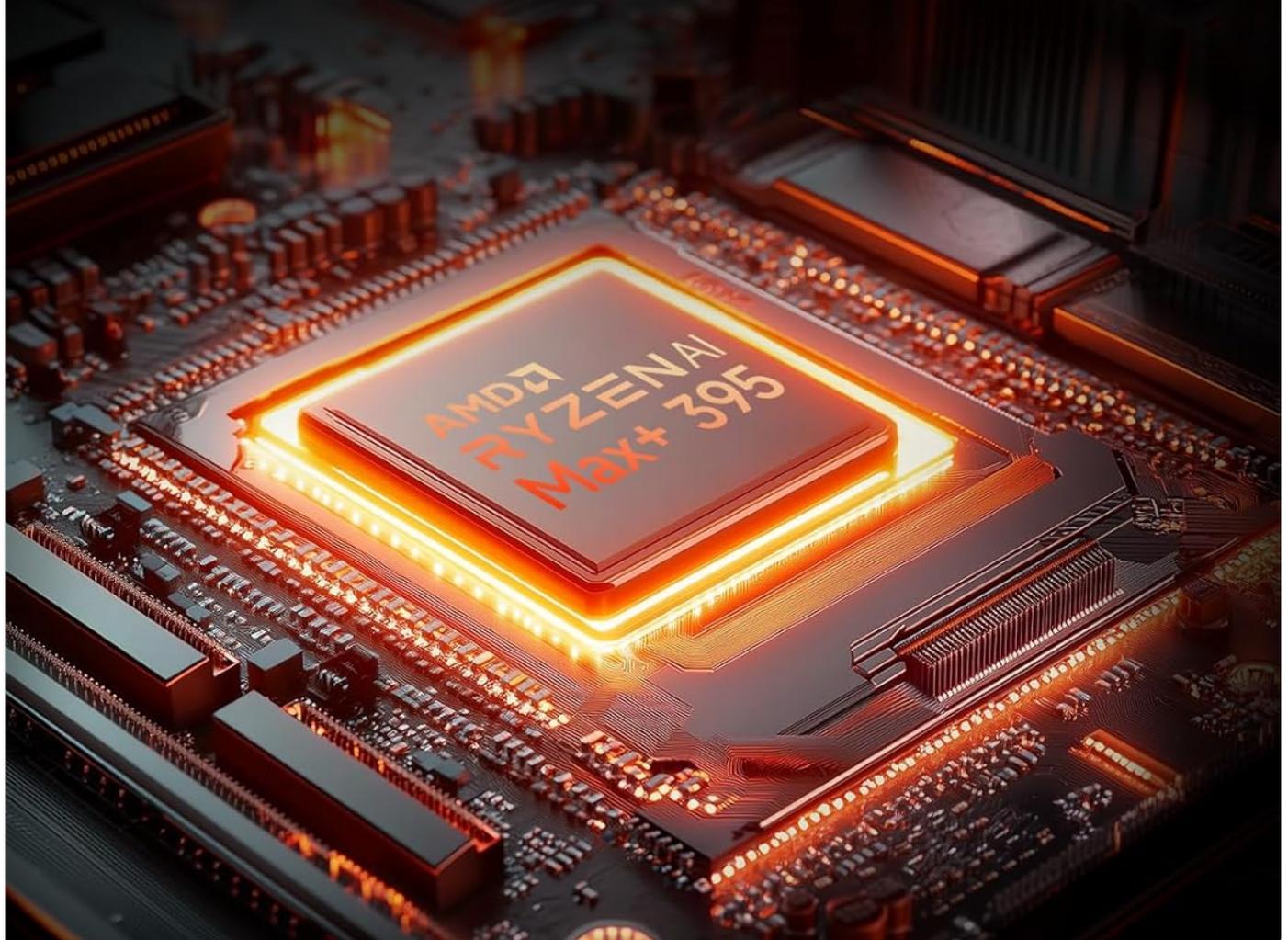


Figure 3: Detailed view of the AMD Ryzen AI Max+ 395 processor, highlighting its core count, clock speed, and cache.

**GMKtec**  
Geek.Modern.(K)Creative

GMKtecは技術の研究開発に注力しており、「科学技術革新を生き返らせ、人生をより良くする」というビジョンを守り、世界中のお客様にプロ仕様のミニPCとモバイルモニターを提供します。テクノロジー製品と究極の消費者体験、そして世界をつなぎ、世界に奉仕するを使命としています。

**Geek** | 世界中のユーザーに究極の製品体験を提供することを目指しています。

**Modern** | ユーザーに最先端のテクノロジー製品を提供することを目指しています。

**Creative** | 常に時代の変化に対応する革新的な精神を堅持します。

Figure 4: The innovative XDNA 2 architecture, enabling high-performance AI processing for various applications.

### 3.2 Graphics Performance

The integrated Radeon 8060S graphics, based on RDNA 3.5 architecture with 40 CUs, provides professional-grade graphics performance. This allows for smooth 4K video editing, 3D rendering, and VR content creation.

### 3.3 Memory and Storage

The EVO-X2 comes with 64GB of LPDDR5X-8000MHz memory, offering ultra-fast access speeds and superior responsiveness. For storage, it includes a 1TB NVMe SSD and supports expansion up to 8TB via two M.2 PCIe 4.0 NVMe slots, making it suitable for data science, AI development, and large storage needs.

# LPDDR5X 8000MHz

8チャンネル

業界最速の低遅延 LPDDR5X メモリソリューション

DDR5 SODIMMより1.3倍高速

最大 8000MT/sの速度に到達

ビデオ会議や写真編集でDDR5 SODIMMより**82%** 優れたパフォーマンス

生産性アプリで**15%**優れたパフォーマンス

デジタルコンテンツワークロードで**7%** 優れたパフォーマンス

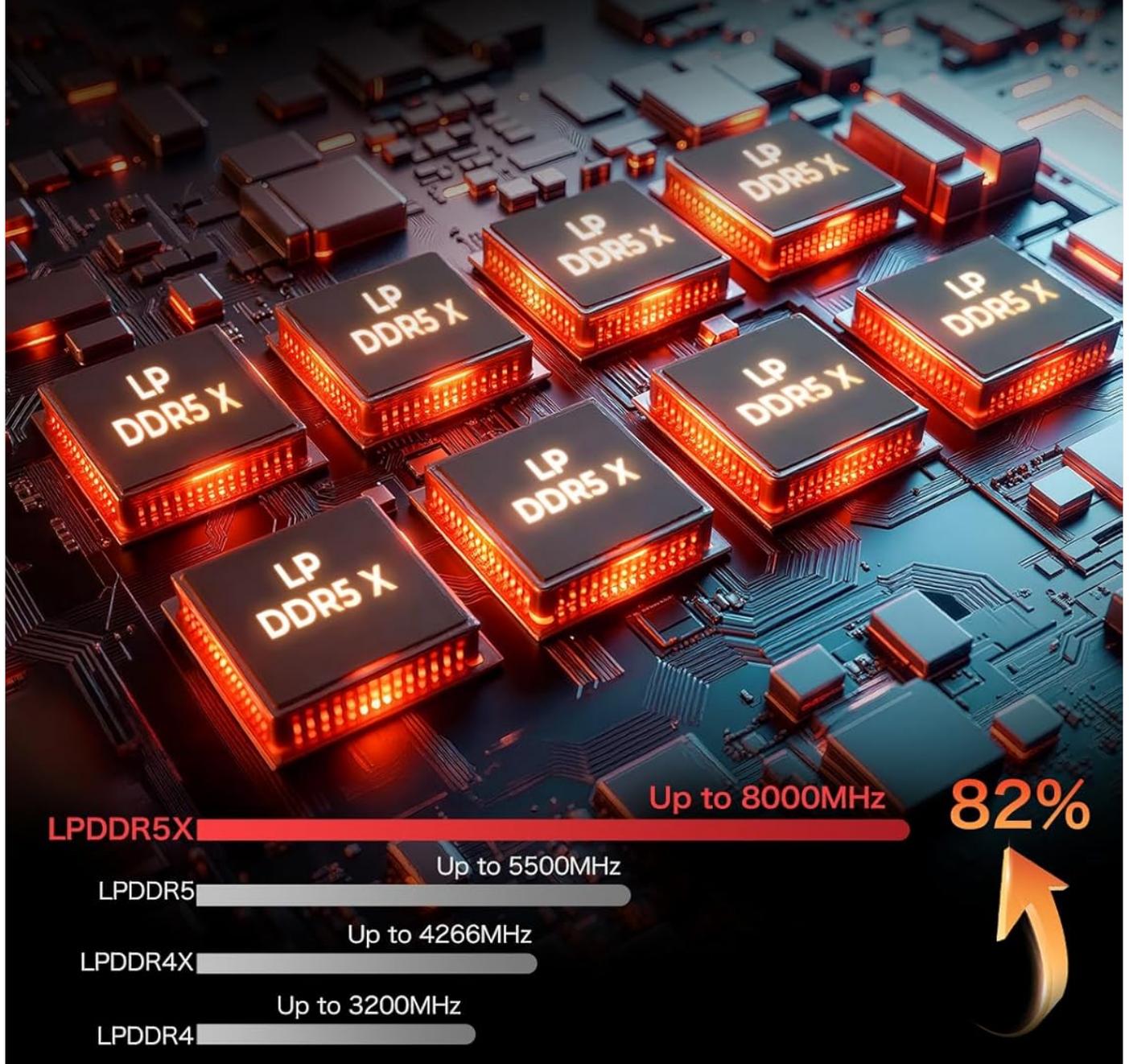


Figure 5: Visual representation of the LPDDR5X 8000MHz memory, highlighting its high-speed capabilities.

## 3.4 Display Output

With HDMI 2.1, DP 1.4, and two USB4 ports, the Mini PC supports up to 8K/60Hz or 4K/240Hz output. It can simultaneously drive up to four displays, catering to the needs of business professionals and creators requiring multi-monitor setups.

# 豊富なインターフェース

For Business, Office, Gaming, Home

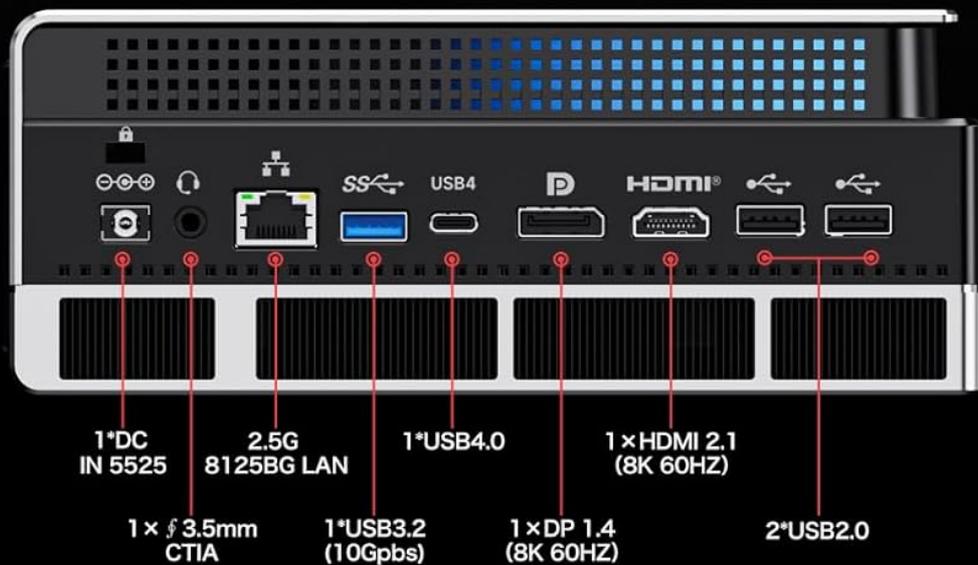


Figure 6: The Mini PC connected to four displays, demonstrating its multi-screen output capability for enhanced productivity.

## 3.5 Connectivity

The EVO-X2 features the latest Wi-Fi 7 (RZ717 (MT7925)) with 320MHz channel width and speeds up to 2.9Gbps, along with a 2.5Gbps wired LAN port. This ensures a high-speed network environment, ideal for remote work and cloud AI tasks.

# 超高速2.5GBEイーサネット

2.5GBE 8125BG ギガビットLAN



## USB4.0 最大40Gbps対応、 より高速かつ安定

PD給電には対応していません



Figure 7: Illustrating the high-speed 2.5GBE Ethernet and USB4.0 connectivity options for rapid data transfer.

### 3.6 Intelligent Cooling and Performance Modes

The device incorporates an intelligent cooling system with 13 fan lighting effects and a physical switch for performance mode selection. This balances quiet operation with stable cooling during high-load tasks, supporting up to 140W TDP for gaming and

development.



Figure 8: Diagram of the Mini PC's advanced triple fan cooling system, designed for efficient heat dissipation.

## 4. MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your Mini PC.

### 4.1 Cleaning

- **Exterior:** Use a soft, dry cloth to wipe the exterior of the Mini PC. Avoid abrasive cleaners or solvents.
- **Vents:** Periodically use compressed air to clear dust from the ventilation openings to ensure proper airflow and cooling.

### 4.2 Software Updates

Keep your operating system (Windows 11 Pro) and drivers updated to the latest versions. This improves security, stability, and performance. Check for updates regularly through Windows Update and the GMKtec official website for driver updates.

### 4.3 Storage Management

Regularly manage your storage by deleting unnecessary files, emptying the recycle bin, and uninstalling unused programs. This helps maintain system speed and frees up valuable disk space.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your GMKtec EVO-X2 Mini PC.

### 5.1 No Display Output

- **Check Cables:** Ensure all display cables (HDMI, DP, USB4) are securely connected to both the Mini PC and the monitor.
- **Power:** Verify the Mini PC is powered on and the power adapter is properly connected.
- **Monitor Input:** Confirm your monitor is set to the correct input source.
- **Try Another Port/Cable:** Test with a different display port on the Mini PC or a different cable if available.

### 5.2 No Internet Connection

- **Wired Connection:** Check if the Ethernet cable is securely plugged into the LAN port and your router. Verify router status.

- **Wireless Connection:** Ensure Wi-Fi is enabled in Windows settings. Check if the correct Wi-Fi network is selected and the password is entered correctly. Restart your router/modem.
- **Driver Issues:** Ensure network drivers are installed and up to date.

### 5.3 System Slowdown or Unresponsiveness

- **Close Applications:** Close any unnecessary applications running in the background.
- **Check Task Manager:** Use Task Manager (Ctrl+Shift+Esc) to identify processes consuming high CPU, memory, or disk resources.
- **Disk Space:** Ensure there is sufficient free space on your SSD.
- **Overheating:** Check if the Mini PC feels unusually hot. Ensure vents are clear and the cooling fan is operating.
- **Malware Scan:** Run a full system scan using antivirus software.

### 5.4 Peripheral Not Detected

- **Reconnect:** Disconnect and reconnect the peripheral.
- **Try Another Port:** Test the peripheral in a different USB port.
- **Driver Installation:** Install the necessary drivers for the peripheral if required.
- **Test on Another Device:** If possible, test the peripheral on another computer to rule out a device malfunction.

## 6. SPECIFICATIONS

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Detailed technical specifications for the GMKtec EVO-X2 Mini PC.

**GMKtec**

**Nucbox EVO-X2**

**AMD Ryzen AI Max+ 395**



### TSMC 4nm FinFET

AMD Radeon 8060S グラフィックス  
AMD RDNA 3.5 40コア



### 四画面出力対応

HDMI 2.1、DP 1.4、USB 4 対応



### PCIe 4.0 M.2 2280 SSD

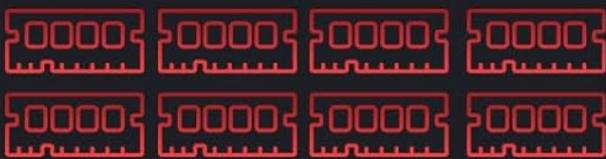
デュアル 2280 NVMeX4 SSD  
最大 8TBまで拡張可能  
(1スロット 最大4TB)

### Windows 11 Pro、Linux、 Ubuntuに対応



### 三重内部冷却ファン構造

16モードシステム冷却ファン



### LPDDR5X 8000MHzメモリ搭載

8チャンネル構成 (On board)



### WiFi 7

Bluetooth 5.4

Figure 9: Comprehensive diagram detailing the internal components and features of the GMKtec EVO-X2.

Feature	Specification
Brand	GMKtec

Feature	Specification
Model Name	GMKTEC EVO-X2-JP
Operating System	Windows 11 Pro
CPU Brand	AMD
CPU Type	AMD A Series (Ryzen AI Max+ 395)
CPU Speed	5.1 GHz (Max Boost)
Graphics Coprocessor	Radeon 8060S (Integrated)
Memory Type	LPDDR5X
Installed RAM Size	64 GB (LPDDR5X-8000MHz)
Max Memory Capacity	128 GB
Hard Disk Type	SSD
Hard Disk Capacity	1 TB (Expandable up to 8TB via 2x M.2 PCIe 4.0 NVMe slots)
Resolution	7680 x 4320 (8K)
HDMI Ports	1 (HDMI 2.1)
DisplayPort	1 (DP 1.4)
USB4 Ports	2
USB 3.0 Ports	2
USB 2.0 Ports	2
LAN	2.5Gbps Ethernet
Wireless Connectivity	Wi-Fi 7 (RZ717 (MT7925)), Bluetooth 5.4
Product Dimensions	38.4 x 25.2 x 9.3 cm
Item Weight	3.3 kg

## 7. WARRANTY AND SUPPORT

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GMKtec provides comprehensive support for your EVO-X2 Mini PC.

### 7.1 Manufacturer's Warranty

Your GMKtec EVO-X2 Mini PC comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For any technical assistance, troubleshooting, or warranty inquiries, please contact GMKtec customer support. We offer **24-hour customer support** to ensure your issues are resolved promptly.

Please visit the official GMKtec website for contact information and additional support resources.

