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GenMachine Ren4000

GenMachine Mini PC AMD Ryzen 5 4500U Instruction Manual

Model: Ren4000

INTRODUCTION

The GenMachine Mini PC AMD Ryzen 5 4500U is a high-performance mini computer designed for versatile use in home and office environments. It features an AMD Ryzen 5 4500U processor, 16GB DDR4 RAM, and a 512GB SSD for rapid boot times and efficient multitasking. Enjoy crystal-clear 4K visuals with HDMI support and seamless connectivity with Wi-Fi 6 and Bluetooth 5.2. Its compact and quiet design ensures it fits into any workspace without disruption.

WHAT'S IN THE BOX

The GenMachine Mini PC package includes the following items:

- Mini PC
- User manual
- Packing box
- Power adapter
- HD line (HDMI cable)
- Bracket (for mounting)

Application Environment

Effortless transitions across multiple scenarios



Packing List

- 1 Mini PC
- 2 User manual
- 3 Packing box
- 4 Power adapter
- 5 HD line
- 6 Bracket



Image: A visual representation of the GenMachine Mini PC and its included accessories, neatly arranged next to the packaging box. Items include the Mini PC unit, user manual, power adapter, HDMI cable, and a mounting bracket with screws.

SETUP

Initial Connection

1. Connect the power adapter to the DC-in port on the Mini PC and then to a power outlet.
2. Connect your display(s) using the HDMI port(s) or USB-C display output. The Mini PC supports 4K Ultra HD visuals and dual display setups.
3. Connect your keyboard and mouse to the available USB 3.0 or USB 2.0 ports.
4. For internet access, connect an Ethernet cable to the LAN port or connect via Wi-Fi 6.
5. Power on the Mini PC by pressing the power button.

Topspeed Networking

GenMachine: Future-ready with Wi-Fi 6

Delivering speeds **2.74x** faster than Wi-Fi 5 for unmatched stability and speed



Wifi6



Maximize Your Space

GenMachine Mini PC: Ultra-durable, lightweight metal casing space-saving and powerful, suitable for any work environment

1/40

ONLY One-fortieth of the Volume of a Traditional Tower Chassis



Compact
0.454L

Lightweight
500G

Image: Close-up view of the GenMachine Mini PC's front and rear panels, highlighting the various ports including USB 3.0, USB-C, HDMI, LAN, and audio jacks for easy connection of peripherals and displays.

Operating System

The GenMachine Mini PC comes pre-installed with Windows 11 Pro. Follow the on-screen instructions to complete the initial setup of the operating system.

Mounting the Mini PC

Utilize the included VESA mounting bracket to attach the Mini PC to the back of a compatible monitor or to a wall, optimizing your workspace and maintaining a clean setup.



Image: The GenMachine Mini PC is shown next to a traditional tower PC, illustrating its significantly smaller size. It also depicts the Mini PC mounted behind a monitor and placed on a desk, demonstrating its space-saving benefits.

Video Guide: Mini PC Setup and Upgrade

Your browser does not support the video tag.

Video: An official seller video demonstrating the unboxing, setup, and internal components of the GenMachine Mini PC, including how to upgrade RAM and SSD.

OPERATING

Performance and Usage

The AMD Ryzen 5 4500U processor provides powerful performance for a variety of tasks, including web browsing, office applications, 4K video playback, and light creative work. The 16GB DDR4 RAM ensures smooth multitasking, while the 512GB SSD offers fast data access.



Image: An infographic detailing the efficient performance of the GenMachine Mini PC, highlighting the 7nm 4500U processor with Zen2 architecture, 6 cores, 6 threads, and 4.0 GHz turbo frequency.

Connectivity

Benefit from next-generation connectivity with Wi-Fi 6 for faster and more stable wireless internet, and Bluetooth 5.2 for seamless pairing with peripherals like keyboards, mice, and audio devices.

Multiple Interfaces



Image: A visual comparison showing Wi-Fi 6 speeds (9.6Gbps) significantly faster than Wi-Fi 5 speeds (3.5Gbps), emphasizing the top-speed networking capabilities of the GenMachine Mini PC.

Dual Display Support

Connect up to two 4K displays simultaneously via HDMI and USB-C for enhanced productivity or an immersive viewing experience.

Topspeed Networking

GenMachine: Future-ready with Wi-Fi 6

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wifi6



Image: The GenMachine Mini PC is shown connected to three screens, displaying different applications like video editing software and a movie, illustrating its triple screen support.

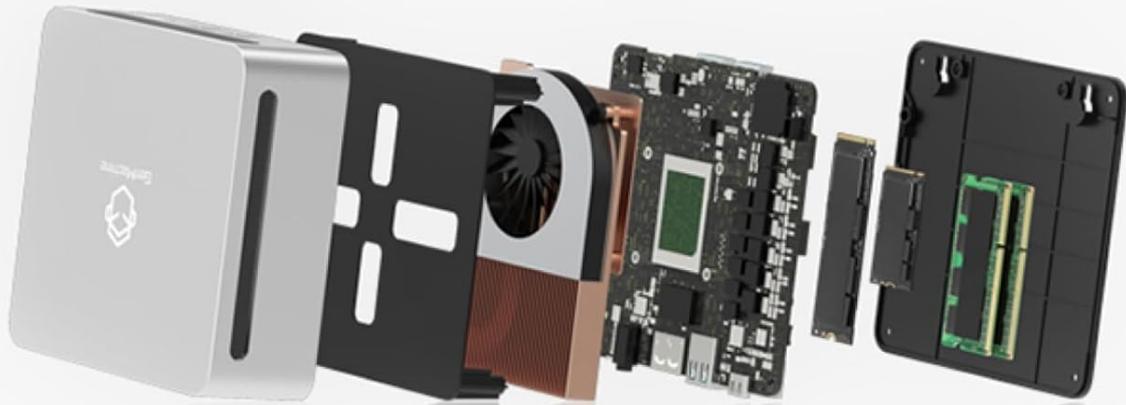
MAINTENANCE

Upgrading RAM and Storage

The GenMachine Mini PC is designed for easy upgrades of its RAM and SSD. To access the internal components, carefully unscrew the four screws on the bottom panel. Once opened, you will find accessible slots for both RAM (DDR4 SODIMM) and the M.2 SSD. This allows for future expansion to meet evolving performance or storage needs.

Fivefold Inspection

Comprehensive and Rigorous Quality Control and Reliability Verification



Vibration Test



Drop Test



Temperature and
Humidity Test



Port Test



Noise Test

Image: An exploded view of the GenMachine Mini PC, showing its internal components including the casing, fan, motherboard, RAM, and SSD, illustrating its modular design for easy inspection and upgrades.

Quality Control

The device undergoes rigorous quality control, including vibration, drop, temperature, humidity, port, and noise tests, ensuring durability and reliability.

Fivefold Inspection

Comprehensive and Rigorous Quality Control and Reliability Verification



Vibration Test



Drop Test



Temperature and
Humidity Test



Port Test



Noise Test

Image: An infographic detailing the "Fivefold Inspection" process for the GenMachine Mini PC, including Vibration Test, Drop Test, Temperature and Humidity Test, Port Test, and Noise Test, emphasizing comprehensive quality control.

TROUBLESHOOTING

General Issues

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- **No Display:** Verify that the HDMI or USB-C display cables are correctly connected to both the Mini PC and the monitor. Check monitor input settings.
- **No Internet (Wi-Fi):** Ensure Wi-Fi is enabled in the operating system settings and that you are connected to the correct network.
- **No Internet (Ethernet):** Confirm the Ethernet cable is securely plugged into both the Mini PC and your router/modem.
- **Slow Performance:** Check for background applications consuming resources. Consider upgrading RAM or SSD if performance issues persist after basic troubleshooting.

Performance Optimization

If experiencing performance issues, especially under heavy load, ensure the device has adequate ventilation. While the Mini PC features a

quiet cooling system, sustained high performance tasks may benefit from ensuring optimal airflow around the unit.

SPECIFICATIONS

Feature	Detail
Processor	AMD Ryzen 5 4500U (2.2 GHz)
RAM	16GB DDR4 SDRAM
Storage	512GB 2280 SSD (PCIe x 16 interface)
Graphics Coprocessor	AMD Radeon Vega 6 (Integrated)
Max Screen Resolution	3840x2160 (4K)
Connectivity	Wi-Fi 6, Bluetooth 5.2, Ethernet (LAN)
USB Ports	2x USB 2.0, 2x USB 3.0
Video Output	HDMI, USB-C (supports dual display)
Operating System	Windows 11 Pro
Item Weight	1.7 pounds
Package Dimensions	6.26 x 6.26 x 3.6 inches
Color	Black

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official GenMachine website or contact their customer service. Details regarding specific warranty periods and service procedures are typically provided with your purchase documentation.