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GenMachine Ren4000

GenMachine Mini PC AMD Ryzen 3 4300U (Ren4000) Instruction Manual

Model: Ren4000

1. INTRODUCTION

Thank you for choosing the GenMachine Mini PC AMD Ryzen 3 4300U. This compact and high-performance mini computer is designed for both home and office use, offering efficient multitasking, 4K visuals, and advanced connectivity. This manual provides essential information for setting up, operating, and maintaining your device.

2. WHAT'S IN THE BOX

Verify that all items are present in your package:

- GenMachine Mini PC (R3 4300U 8G 256G)
- User Manual
- Power Adapter
- HDMI Cable
- Mounting Bracket (for VESA mounting)

Packing List

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



Image 1: Package Contents. The image displays the GenMachine Mini PC, user manual, power adapter, HDMI cable, and mounting bracket neatly arranged in the packaging.

3. PRODUCT OVERVIEW (HARDWARE)

The GenMachine Mini PC features a compact design with various ports for connectivity and expansion.

Front Panel

- **Power Button:** To power on/off the device.
- **USB 3.0 Ports (x2):** For high-speed data transfer and peripheral connections.
- **USB 2.0 Port (x1):** For standard peripheral connections.

Rear Panel

- **DC Power Input:** Connect the provided power adapter here.
- **USB 2.0 Port (x1):** For standard peripheral connections.

- **HDMI Ports (x2):** For connecting displays, supporting up to 4K resolution.
- **Ethernet (LAN) Port:** For wired network connection.
- **3.5mm Audio Jack:** For headphones or speakers.
- **Kensington Lock Slot:** For securing the device.

Multiple Interfaces



Image 2: Multiple Interfaces. This image shows the front panel with two USB 3.0 ports and a power button, and the rear panel with DC input, USB 2.0, two HDMI ports, an Ethernet port, and an audio jack.

4. SETUP GUIDE

Initial Connection

1. Power off the Mini PC and disconnect all cables.
2. Connect your monitor(s) to the HDMI port(s) on the rear panel.
3. Connect your keyboard and mouse to the available USB ports.
4. (Optional) For a wired network connection, plug an Ethernet cable into the LAN port.

5. Connect the power adapter to the DC input port and then to a power outlet.
6. Press the power button on the front panel to turn on the Mini PC.

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Video 1: Mini PC Setup Overview. This video demonstrates the basic setup of a Mini PC, including connecting peripherals and power, and highlighting its compact size and various ports.

Operating System Setup (Windows 11)

Your GenMachine Mini PC comes with Windows 11 pre-installed. Upon first boot, you will be guided through the initial Windows setup process, including:

- Region and keyboard layout selection.
- Network connection (Wi-Fi 6 or Ethernet).
- Microsoft account sign-in or local account creation.
- Privacy settings configuration.

Follow the on-screen instructions to complete the setup.

5. PERFORMANCE AND USAGE

The AMD Ryzen 3 4300U processor, combined with 8GB DDR4 RAM and a 256GB SSD, provides robust performance for various tasks.

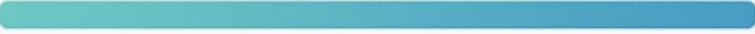
Key Features:

- **4K Ultra HD Visuals & Dual Display Support:** Connect up to two 4K monitors for enhanced productivity or immersive entertainment.
- **Wi-Fi 6 & Bluetooth 5.2:** Enjoy faster and more stable wireless internet and seamless connectivity with Bluetooth peripherals.
- **Compact and Quiet Design:** Its small footprint and ultra-quiet cooling system make it suitable for any workspace without distraction.

Topspeed Networking

GenMachine: Future-ready with Wi-Fi 6

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

Wifi6(9.6Gbps) 

Wifi5(3.5Gbps) 

wifi6



Image 3: Triple Screens. The image shows the Mini PC connected to three monitors, demonstrating its multi-display capability for various applications like video editing and gaming.

Triple Screens

2 HD and Type-C display output display more vision



Image 4: Topspeed Networking. This image highlights the Wi-Fi 6 capability of the Mini PC, showing a speed comparison against Wi-Fi 5.

6. UPGRADING COMPONENTS (MAINTENANCE)

The GenMachine Mini PC allows for easy upgrades of its RAM and SSD to further enhance performance or storage capacity.

Tools Required:

- Small Phillips head screwdriver
- Plastic pry tool (optional, for opening the case)
- New SSD (M.2 2280 NVMe or 2.5-inch SATA SSD)
- New RAM (DDR4 SODIMM)

Procedure:

1. Power off the Mini PC and disconnect all cables.
2. Carefully remove the four rubber foot pads on the bottom of the Mini PC to reveal the hidden screws.
3. Unscrew the four screws.
4. Gently pry open the bottom plate along the edges. Be careful with the internal clips.
5. Locate the existing SSD and RAM modules.
6. To remove the SSD: If fixed by screws, unscrew them. If by clips, open the clips and pull out the original SSD.
7. To remove RAM: Open the clips at both ends of the memory slot and pull out the original memory vertically.
8. Insert the new SSD/RAM into the respective slots, ensuring they are properly seated and secured.
9. Replace the bottom plate, aligning it with the clips and screw holes.

10. Screw on the previously removed screws and reattach the foot pads.

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Video 2: How to Install DDR & SSD. This video provides a step-by-step guide on how to easily expand or replace the DDR RAM and SSD storage in a Mini PC.

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Video 3: How to Replace or Install Memory & SSD. This video demonstrates the process of replacing or installing memory and SSD in a Mini PC, showing the internal components and the ease of upgrade.

7. MOUNTING OPTIONS

The GenMachine Mini PC can be mounted behind a VESA-compatible monitor using the included mounting bracket, saving desk space and creating a clean setup.

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

10.6cm 11.4cm
3.75cm

Compact
0.454L

Lightweight
500G

Image 5: Maximize Your Space. This image illustrates the compact size of the Mini PC compared to a traditional tower chassis and shows it mounted behind a monitor for space-saving.

8. SPECIFICATIONS

Feature	Detail
Processor	AMD Ryzen 3 4300U (2.7 GHz)
RAM	8GB DDR4 SDRAM
Storage	256GB 2280 SSD (PCIe x 16 interface)
Graphics	Integrated AMD Radeon Graphics
Operating System	OS (Windows 11 pre-installed)
Connectivity	Wi-Fi 6, Bluetooth 5.2, Ethernet
Video Output	2x HDMI (4K @ 60Hz), USB-C (DisplayPort Alt Mode)
USB Ports	2x USB 3.0, 2x USB 2.0, 1x USB-C
Dimensions	6.26 x 6.26 x 3.6 inches
Weight	2 pounds

9. TROUBLESHOOTING

- **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 cable(s) are correctly connected to the monitor(s) and the Mini PC. Check monitor input source settings.
- **No Internet (Wi-Fi):** Ensure Wi-Fi is enabled in Windows settings and you are connected to the correct network.
- **No Internet (Wired):** Check the Ethernet cable connection and ensure your router is functioning correctly.
- **Slow Performance:** Close unnecessary applications. Check for background updates. Consider upgrading RAM or SSD if issues persist.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided in your product packaging or visit the official GenMachine website. Keep your purchase receipt for warranty claims.

