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- › [Akasa](#) /
- › [Akasa Maxwell RC Pro Fanless Case User Manual](#)

Akasa A-NUC102-M1B

Akasa Maxwell RC Pro User Manual

Model: A-NUC102-M1B

INTRODUCTION

The Akasa Maxwell RC Pro is a premium fanless aluminium case designed specifically for the ASUS NUC 14/15 Pro (Revel Canyon / Cyber Canyon) mini-PC. This case provides a silent, high-performance computing solution by utilizing passive cooling technology, making it ideal for various applications including digital signage, security systems, home theaters, and quiet gaming environments. Its compact and stylish design ensures it fits seamlessly into any setup.



Figure 1: The Akasa Maxwell RC Pro fanless case, showcasing its sleek, black aluminium design with ribbed sides for heat dissipation and front panel USB ports.

SETUP GUIDE

This section provides instructions for installing your ASUS NUC 14/15 Pro motherboard into the Akasa Maxwell RC Pro case and setting up the thermal solution.

1. Compatibility and Preparation

Ensure your ASUS NUC motherboard is compatible with the Maxwell RC Pro case (ASUS NUC 14/15 Pro, Revel Canyon / Cyber Canyon). Gather all necessary tools, including a screwdriver and thermal paste (if not pre-applied or included).



**Designed for
ASUS NUC 14/15 Pro
(Revel Canyon / Cyber Canyon)**



Position horizontally or vertically

Figure 2: The ASUS NUC 14/15 Pro motherboard, which is designed to fit inside the Akasa Maxwell RC Pro case. The case can be positioned horizontally or vertically.

2. Thermal Module Installation

The case features an internal passive thermal module with dual 8mm copper heat pipes designed for efficient CPU heat transfer. Carefully install the thermal module onto the CPU of your NUC motherboard, ensuring proper contact for optimal heat dissipation. Refer to the detailed instructions provided with the case for precise placement and securing of the heat pipes and heatsink.

Advanced Performance

Aluminum Fanless Cooling Design



Figure 3: Diagram illustrating the internal passive thermal module with 8mm copper heat pipes, designed to transfer heat from the CPU to the case's fins for silent cooling up to 40W TDP.

3. Motherboard and Component Installation

Once the thermal module is in place, carefully mount the NUC motherboard inside the Maxwell RC Pro case. Secure it using the provided screws. Connect any necessary internal cables, such as those for the power button, USB ports, and storage devices (2.5" SSD/HDD). Ensure all connections are firm and correctly oriented.

4. External Connections

After the internal components are secured, attach external accessories. This includes connecting antennas (if using Wi-Fi/Bluetooth), power adapters, and display cables. The case supports various power adapters (e.g., 90W, 120W) and offers multiple ports for connectivity.



Perfect for your Build

Antenna (A-ATN01-BK) & Pigtail (A-ATC01-150GR)

Power Adapters 120W, 19V (AK-PD120-04M)

Power Adapters 90W, 19V (AK-PD090-01M)

Figure 4: The Akasa Maxwell RC Pro case with external antennas and a power adapter connected, demonstrating its readiness for a complete build.

OPERATING INSTRUCTIONS

The Akasa Maxwell RC Pro is designed for silent and efficient operation, leveraging its fanless cooling system.

Silent Operation

Due to its fanless design and reliance on SSD storage (recommended), the Maxwell RC Pro provides a completely silent computing experience (0dB). This makes it ideal for environments where noise reduction is critical, such as recording studios, home theaters, or quiet office spaces.

Display Connectivity

The case allows for extensive display connectivity, supporting up to four 4K displays simultaneously through dual HDMI 2.1 and Thunderbolt 4 ports (depending on the NUC motherboard's capabilities). This versatility makes it suitable for multi-monitor setups, digital signage, or immersive gaming.

Connect Up to Four 4K Displays Effortlessly



Figure 5: The Akasa Maxwell RC Pro case demonstrating its capability to connect up to four 4K displays simultaneously, ideal for multi-tasking or digital signage.

Compact and Versatile Placement

With a compact 3.6L volume and a stylish brushed aluminium finish, the Maxwell RC Pro can be placed horizontally or vertically, adapting to various space constraints and aesthetic preferences.

Perfect for Constrained Spaces

Silent and stylish



Figure 6: The Akasa Maxwell RC Pro case integrated into a compact desk setup, highlighting its small footprint and silent operation.

MAINTENANCE

The Akasa Maxwell RC Pro fanless case requires minimal maintenance due to the absence of moving parts like fans. Regular cleaning will help maintain optimal performance and appearance.

- **Dust Removal:** Periodically wipe down the exterior of the case with a soft, dry cloth to remove dust. For accumulated dust in the cooling fins, use compressed air to gently clear it.
- **Avoid Obstructions:** Ensure that the cooling fins are not obstructed by objects, as this can impede airflow and reduce cooling efficiency.
- **Environmental Conditions:** Operate the case in a clean, dry environment with adequate ventilation to prevent dust buildup and ensure proper heat dissipation.

TROUBLESHOOTING

If you encounter issues with your Akasa Maxwell RC Pro setup, consider the following common troubleshooting steps:

- **No Power:**
 - Verify that the power adapter is securely connected to both the case and a working power outlet.
 - Ensure the internal power cable from the case to the NUC motherboard is correctly seated.
- **No Display Output:**
 - Check all HDMI and Thunderbolt 4 display cables are firmly connected to both the NUC and the monitor(s).
 - Ensure the monitor is set to the correct input source.
 - Test with a single monitor and different cables if possible.
- **Overheating Concerns:**
 - Confirm that the thermal module and heat pipes are correctly installed and making proper contact with the CPU.
 - Ensure the case's cooling fins are not blocked and have sufficient air circulation around them.
 - Verify that the CPU TDP of your NUC does not exceed the case's cooling capacity (up to 40W TDP).
- **USB/Peripheral Issues:**
 - Ensure internal USB headers are correctly connected from the case to the motherboard.
 - Test peripherals on different ports or another computer to rule out device issues.

If problems persist after attempting these steps, please refer to the support section for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	Akasa
Model Name	A-NUC102-M1B
Compatibility	ASUS NUC 14/15 Pro (Revel Canyon / Cyber Canyon)
Cooling Type	Fanless (Passive)
Max CPU TDP	Up to 40W
Material	Aluminium with Copper Heatpipes
Dimensions (Approx.)	26.5 x 25.5 x 12.5 cm (Package Dimensions)
Item Weight	2.9 kg
Storage Support	2.5" SSD/HDD
Display Output	Dual HDMI 2.1, Thunderbolt 4 (supports up to four 4K displays)
Connectivity	HDMI, Thunderbolt 4, Ethernet, USB (Total 4 USB ports)
Processor Compatibility	Intel Core Ultra (up to Core™ i7)
Memory Type	DDR5 RAM (NUC dependent)





WARRANTY AND SUPPORT



For detailed warranty information regarding your Akasa Maxwell RC Pro case, please refer to the documentation included with your purchase or visit the official Akasa website. Warranty terms and conditions may vary by region and retailer. If you require technical assistance, have questions about installation, or need to report an issue, please contact Akasa customer support through their official channels. You can find contact information and additional resources on the Akasa website:

Visit Akasa Store for Support

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Related Documents - A-NUC102-M1B

	<p>Akasa Turing & Maxwell RC Pro: Limiting TDP on ASUS NUC 14 Pro BIOS</p> <p>Step-by-step guide to limiting the Thermal Design Point (TDP) for ASUS NUC 14 Pro (Revel Canyon) motherboards using BIOS settings with Akasa Turing RC Pro and Maxwell RC Pro cases.</p>
	<p>How to Limit TDP in BIOS for ASUS NUC 15 Pro (Cyber Canyon) Akasa</p> <p>Step-by-step guide from Akasa on limiting the Thermal Design Point (TDP) in the BIOS settings of ASUS NUC 15 Pro (Cyber Canyon) motherboards for optimal thermal management.</p>
	<p>Akasa A-NUC103-M1B User Manual: Installation Guide for ASUS NUC</p> <p>Comprehensive user manual and installation guide for the Akasa A-NUC103-M1B fanless case, designed for ASUS NUC 14/15 Pro, NUC 12/13 Pro, and NUC 11 Pro. Includes safety precautions, parts list, and step-by-step installation instructions.</p>
	<p>Akasa A-NUC105-M1B / A-NUC63-M1B User Manual: Installation Guide</p> <p>User manual for Akasa A-NUC105-M1B and A-NUC63-M1B PC cases, providing detailed installation instructions, component identification, and safety guidelines for Intel NUC systems.</p>

	<p>Akasa Newton CTN Fanless Case User Manual - A-NUC75-A1B / A-NUC75-M1B</p> <p>User manual for the Akasa Newton CTN fanless case, providing installation instructions, VESA mounting guidance, and safety precautions for models A-NUC75-A1B and A-NUC75-M1B.</p>
	<p>Akasa A-NUC106-M1B User Manual: Installation and Safety Guide</p> <p>User manual for the Akasa A-NUC106-M1B PC case, providing detailed installation instructions, safety precautions, and component lists for NUC systems.</p>