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Cooler Master RC-110-KKN2

Cooler Master Elite 110 Mini-ITX Computer Case User Manual

Model: RC-110-KKN2 | Brand: Cooler Master

1. PRODUCT OVERVIEW

The Cooler Master Elite 110 is a compact yet powerful Mini-ITX computer case designed for efficient use of internal space. It supports the latest Mini-ITX motherboards and graphics cards up to 8.3 inches long. This case is capable of accommodating full-sized power supplies up to 180mm in length and offers versatile storage options for up to three HDDs or four SSDs. Additionally, it supports 120mm water cooling radiators, making it suitable for building space-efficient, water-cooled, and gaming-grade PCs.



Figure 1.1: Front three-quarter view of the Cooler Master Elite 110 case, showcasing its compact design and mesh front panel.

2. KEY FEATURES

- **Mini-ITX Motherboard Compatibility:** Designed specifically for Mini-ITX form factor motherboards.
- **Optimized Airflow:** Features a mesh front panel for excellent front-to-back airflow, ensuring optimal cooling.
- **Standard PSU Support:** Supports standard ATX power supplies up to 180mm in length.
- **Water Cooling Ready:** Capable of supporting a 120mm water cooling system in the front for enhanced thermal performance.
- **Graphics Card Support:** Accommodates graphics cards up to 8.3 inches (210mm) long.
- **Versatile Storage Options:** Offers flexible storage configurations, supporting up to 3 HDDs or 4 SSDs (e.g., 3x HDD, 2x HDD + 2x SSD, 1x HDD + 3x SSD, or 4x SSD).
- **Compact Design:** Ideal for HTPC (Home Theater PC), Steam Box, or other compact gaming builds.



Figure 2.1: Top three-quarter view highlighting the ventilation on the top panel.

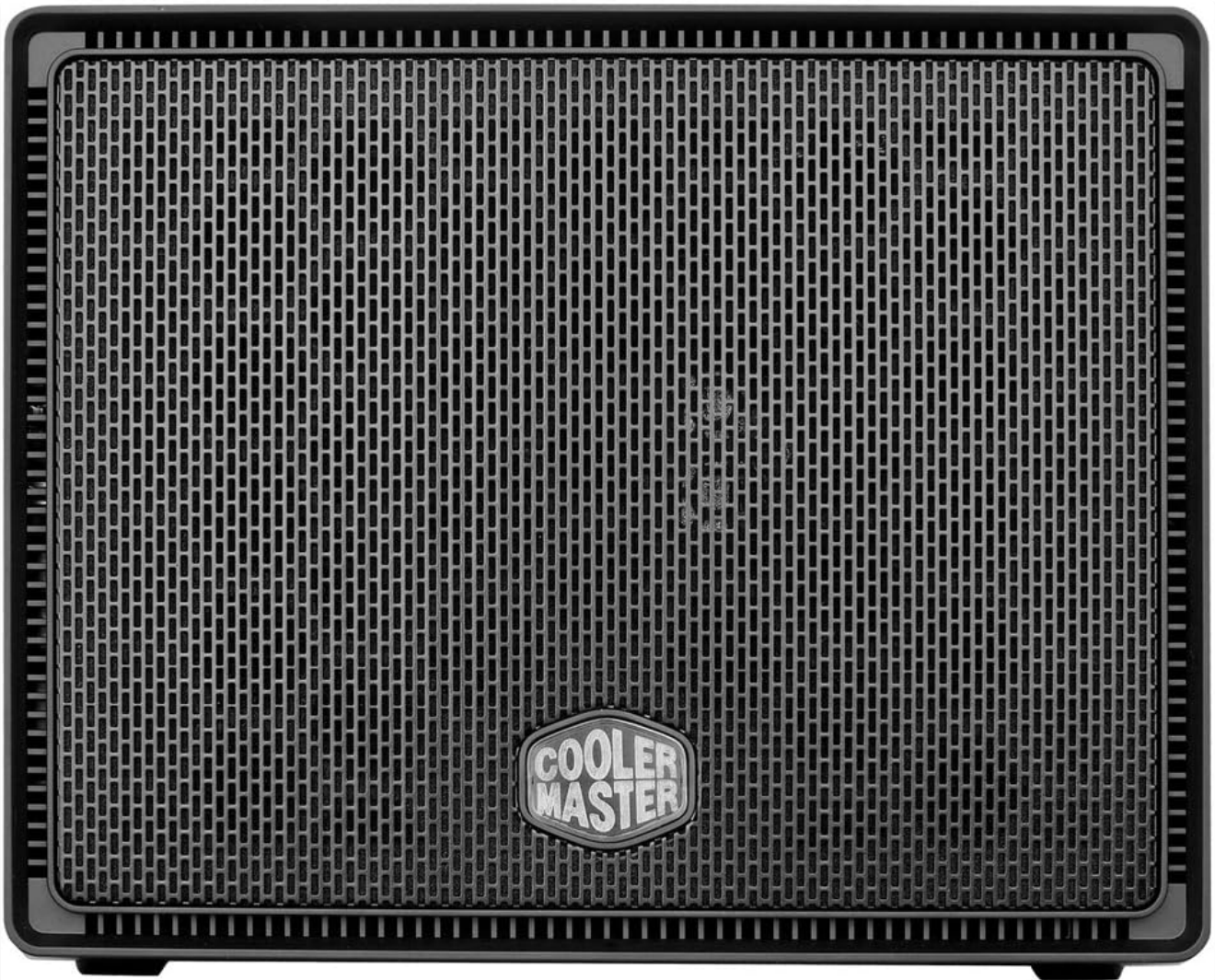


Figure 2.2: Direct front view showing the Cooler Master logo on the mesh panel.

3. SETUP AND INSTALLATION

Building a system in the Elite 110 requires careful planning due to its compact size. Follow these general steps for component installation:

3.1 Preparing the Case

- Remove the side panels by unscrewing the thumbscrews at the rear.
- Familiarize yourself with the internal layout, including motherboard standoffs, drive bays, and cable routing options.



Figure 3.1: Internal view of the Elite 110 case, showing the empty chassis ready for component installation.

3.2 Motherboard Installation

- Install the I/O shield into the rear opening of the case.
- Carefully align your Mini-ITX motherboard with the pre-installed standoffs and secure it with screws.

3.3 Power Supply Unit (PSU) Installation

- Mount your standard ATX PSU into the designated bracket at the rear of the case.
- Secure the PSU with screws. Consider cable management as you install to minimize clutter.



Figure 3.2: Internal view demonstrating the placement of a power supply unit and a Mini-ITX motherboard.

3.4 Storage Drive Installation (HDD/SSD)

- Utilize the various mounting points for 3.5" HDDs and 2.5" SSDs. The case offers flexible options, including mounting on the top bracket and side panel.
- Secure drives using the provided screws or tool-less mechanisms where applicable.



Figure 3.3: View showing installed SSDs and a hard disk drive within the case's drive bays.

3.5 Graphics Card Installation

- Insert your graphics card into the PCIe slot on the motherboard. Ensure it is no longer than 8.3 inches.
- Secure the card with the retention clip or screw at the rear expansion slot.



Figure 3.4: Internal view illustrating the installation of a power supply unit and a graphics card.

3.6 Cooling System Installation

- The case supports a 120mm fan or radiator at the front. Install your chosen cooling solution here.
- Ensure proper airflow direction for optimal cooling performance.



Figure 3.5: Internal view showing the placement of cooling fans and the motherboard.

3.7 Cable Management

- Due to the compact nature of the Elite 110, effective cable management is crucial for airflow and aesthetics.
- Utilize zip ties and routing points to neatly organize power and data cables.

4. OPERATING THE CASE

Once all components are installed and connected, the Cooler Master Elite 110 functions as the protective enclosure and cooling framework for your PC. Ensure the following for optimal operation:

- **Proper Ventilation:** Ensure the case is placed in an area with adequate airflow, avoiding obstruction of the front mesh panel and top/side vents.
- **Front Panel Connectivity:** Utilize the front panel USB 3.0 ports and audio jacks for convenient access to peripherals.
- **Power Button:** Use the power button on the front panel to turn your system on/off.



Figure 4.1: Side view of the case, highlighting the front panel I/O ports including USB 3.0 and audio jacks.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your computer system within the Elite 110 case.

- **Dust Filter Cleaning:** Periodically clean the front mesh panel and any other dust filters to prevent dust buildup, which can impede airflow and lead to overheating.
- **Internal Dust Removal:** Every few months, open the case and use compressed air to remove dust from internal components, especially fans and heatsinks.
- **Exterior Cleaning:** Wipe the exterior of the case with a soft, damp cloth to keep it clean. Avoid harsh chemicals.

6. TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Overheating:** If components are running hot, check for dust buildup on fans and filters. Ensure proper cable management to avoid obstructing airflow. Verify that all fans are spinning correctly.
- **Components Not Fitting:** Double-check the specifications for component length (e.g., graphics card, PSU) against the case's maximum supported dimensions. Ensure all cables are routed efficiently to free up space.

- **Front Panel I/O Not Working:** Verify that the front panel connectors (USB, audio, power/reset switches) are correctly plugged into the motherboard headers. Refer to your motherboard manual for correct pin assignments.
- **System Not Powering On:** Ensure the PSU is properly connected to the motherboard and components. Check that the power button cable is correctly connected to the motherboard.

7. SPECIFICATIONS

Detailed specifications for the Cooler Master Elite 110 Mini-ITX Computer Case:

Feature	Specification
Brand	Cooler Master
Model Number	RC-110-KKN2
Case Type	Mini-Tower
Motherboard Compatibility	Mini ITX
Color	Elite 110 (Midnight Black)
Material	Steel / Plastic
Dimensions (L x W x H)	11.1 x 10.3 x 8.2 inches (282 x 260.5 x 208 mm)
Item Weight	5.9 pounds (2.68 kg)
Expansion Slots	2
Front I/O Ports	2x USB 3.0, 1x USB 2.0, Audio In & Out
Power Supply Mounting Type	Rear Mount (Supports standard ATX PSUs up to 180mm)
Cooling Method	Air (Supports 120mm water cooling in front)
Max Graphics Card Length	8.3 inches (210mm)
Drive Bays	Up to 3x 3.5" HDD or 4x 2.5" SSD



Figure 7.1: Rear view of the case, showing the PSU mount and expansion slots.

8. WARRANTY AND SUPPORT

Cooler Master products are manufactured to the highest quality standards. For specific warranty information, please refer to the official Cooler Master website or the documentation included with your purchase.

For detailed installation instructions, troubleshooting guides, and further support, please refer to the official user manual PDF:

[Download Official User Manual \(PDF\)](#)

You can also visit the Cooler Master support page for FAQs and contact information: www.coolermaster.com