

Cooler Master Elite 302

Cooler Master Elite 302 Micro-ATX PC Case User Manual

Model: Elite 302 (E302-KGNN-S00)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Cooler Master Elite 302 Micro-ATX PC Case. Designed for efficient system building, this case offers high airflow and compatibility for various components. Please read this manual thoroughly before beginning your PC assembly to ensure proper setup and optimal performance.



Figure 1: Front-side view of the Cooler Master Elite 302 Micro-ATX PC Case.

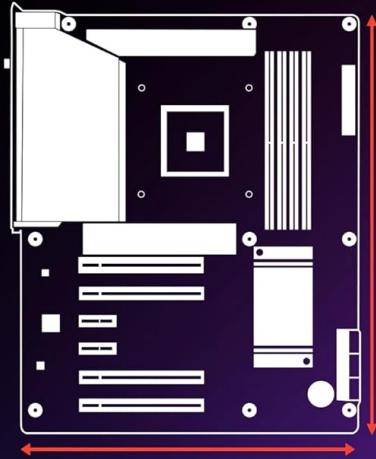
2. KEY FEATURES

The Cooler Master Elite 302 PC Case is engineered with several features to enhance your building experience and system performance:

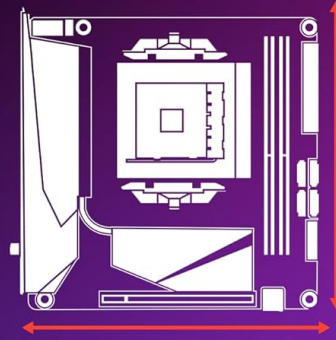
- **Motherboard Compatibility:** Designed to accommodate Micro-ATX or Mini-ITX motherboards, providing a compact yet functional build space.

PERFECT FIT FOR MINIMALIST SETUP

Explore a roomy interior exclusively designed to accommodate **Micro-ATX** or **Mini-ITX** motherboards.



MICRO-ATX
9.6 in x 9.6 in



MINI-ITX
6.7 in x 6.7 in

Figure 2: Illustration showing compatibility for Micro-ATX (9.6 in x 9.6 in) and Mini-ITX (6.7 in x 6.7 in) motherboards.

- **GPU Clearance:** Supports graphics cards up to 365mm in length, allowing for installation of high-performance GPUs.

SPACIOUS GPU CLEARANCE

Accommodating GPUs up to 365mm, even a RTX 5090 | RX 9070 XT.

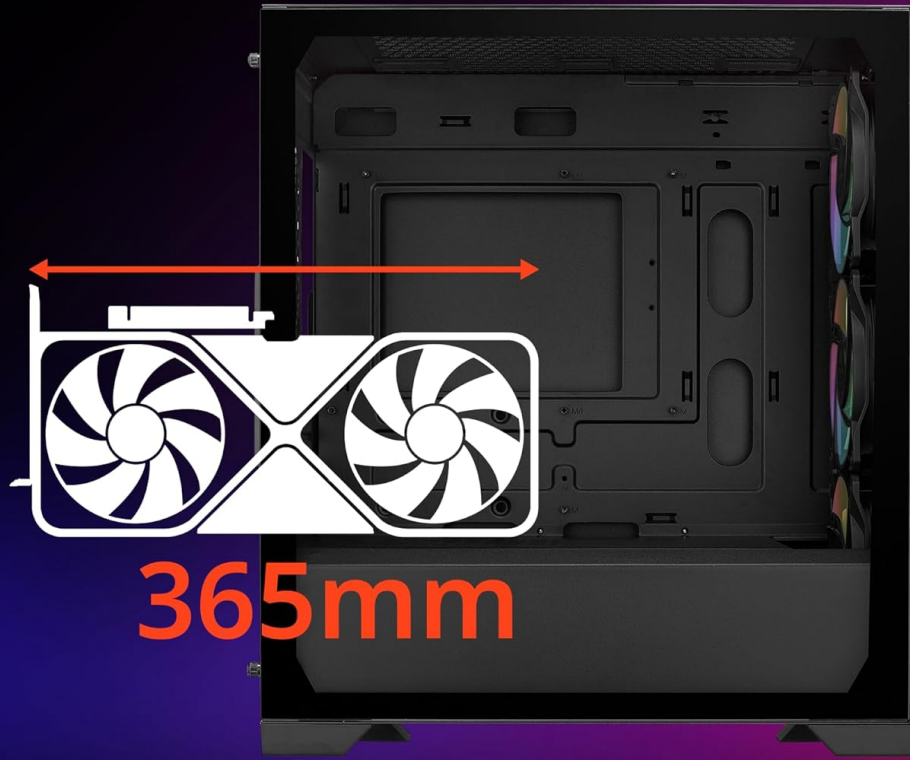


Figure 3: Diagram indicating a maximum GPU length clearance of 365mm within the case.

- **Cooling Support:** Features support for a 280mm liquid cooler and up to six fans for optimal thermal management.

STAY COOL UNDER PRESSURE

Experience **280mm liquid cooler** and **six fan** support
for optimal thermal efficiency.

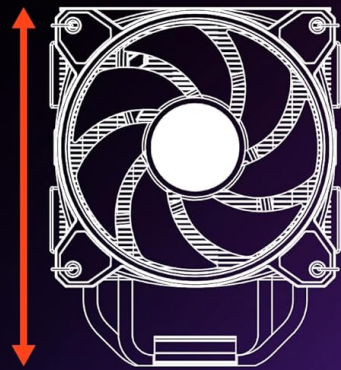


Figure 4: Internal view highlighting potential mounting locations for a 280mm liquid cooler and additional fans.

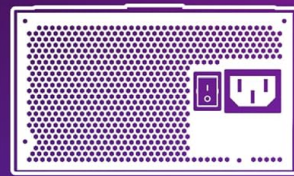
- **Component Clearance:** Accommodates CPU coolers with a height of 163.5mm and power supply units (PSUs) up to 160mm in length.

COMPONENTS CLEARANCE

Handles **CPU coolers height of 163.5mm**, and **PSU 160mm in length**.



163.5mm



160mm

Figure 5: Visual representation of maximum CPU cooler height (163.5mm) and PSU length (160mm).

- **High Airflow Design:** Equipped with a large intake grill and three pre-installed 120mm ARGB PWM fans to ensure unrestricted airflow and efficient cooling.

UNRESTRICTED AIR FLOW

The 3x 120mm ARGB PWM fans deliver exceptional airflow.



Figure 6: Diagram illustrating the path of unrestricted airflow through the front mesh panel and out the rear of the case.

LARGE INTAKES GRILL

Unrestricted intake grill ensure unrestricted airflow.



Figure 7: Close-up of the front panel, showing the large intake grill and a pre-installed ARGB fan behind it.

- **USB Type-C Connectivity:** An integrated USB Type-C port is located on the I/O panel for modern peripheral connectivity.



Figure 8: Detail of the top I/O panel, featuring the USB Type-C port, USB 3.0 ports, audio jacks, and power/reset buttons.

- **Breathable PSU Shroud:** A ventilated power supply cover efficiently cools the PSU and aids in cable management, contributing to a clean interior.



Figure 9: Internal view showing the ventilated PSU shroud, designed to promote airflow around the power supply.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Elite 302
Item Model Number	E302-KGNN-S00
Brand	Cooler Master
Case Type	Mid Tower
Motherboard Compatibility	Micro ATX, Mini ITX
Material	Alloy Steel, Tempered Glass
Color	Black
Product Dimensions (LxWxH)	15.35 x 16.92 x 8.01 inches
Item Weight	11.86 pounds

Feature	Specification
GPU Clearance	Up to 365mm
CPU Cooler Height	Up to 163.5mm
PSU Length	Up to 160mm
Liquid Cooling Support	Up to 280mm
Cooling Method	Air
Pre-installed Fans	3x 120mm aRGB PWM Fans (Front)
USB 3.0 Ports	3
USB Type-C Ports	1

4. SETUP AND INSTALLATION

Follow these general steps to assemble your PC within the Cooler Master Elite 302 case. Always refer to your component manuals for specific installation details.

- 1. Prepare the Case:** Carefully remove the side panels (tempered glass and solid steel) by unscrewing the thumb screws.
- 2. Install Motherboard:** Secure your Micro-ATX or Mini-ITX motherboard onto the pre-installed standoffs. Ensure all screws are tightened appropriately.



Figure 10: Internal layout of the Elite 302 case, showing the motherboard tray and component mounting areas.

3. **Install CPU and Cooler:** Mount your CPU onto the motherboard, then install your CPU cooler. Ensure it fits within the 163.5mm height clearance.
4. **Install Graphics Card (GPU):** Insert your graphics card into the appropriate PCIe slot. The case supports GPUs up to 365mm in length. Secure it with screws.
5. **Install Power Supply Unit (PSU):** Mount your PSU into the dedicated compartment at the bottom of the case. Ensure it fits within the 160mm length clearance.
6. **Install Storage Drives:** Install your SSDs or HDDs into the designated drive bays.
7. **Cable Management:** Route all power and data cables through the cutouts in the motherboard tray to the rear of the case. Utilize the cable tie points for a clean and organized build.

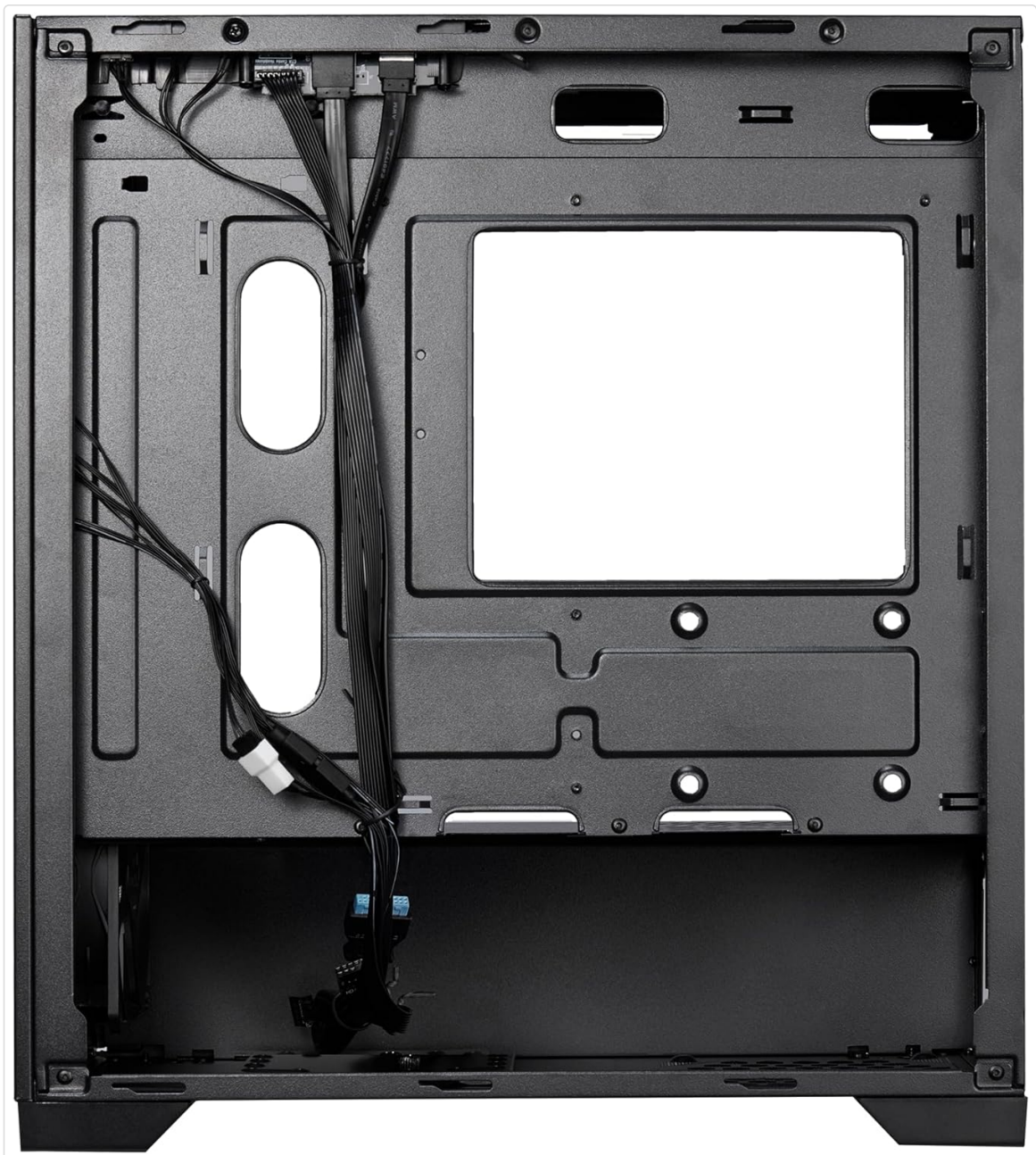


Figure 11: Rear interior view of the case, illustrating space and tie-down points for effective cable management.

8. **Connect Front Panel I/O:** Connect the front panel cables (USB, audio, power, reset, LED) to the corresponding headers on your motherboard.
9. **Reattach Panels:** Once all components are installed and cables managed, reattach the side panels.

5. OPERATION

After successful assembly, connect your peripherals, monitor, and power cable to the system. Press the power button on the top I/O panel to start your computer. The pre-installed ARGB fans will illuminate, and your system should boot up.







Figure 12: Front view of the Cooler Master Elite 302, showcasing the three 120mm ARGB PWM fans.

Utilize the front panel USB 3.0 and USB Type-C ports for convenient access to external devices. The audio jacks allow for headphone and microphone connections.

6. MAINTENANCE

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

- **Dust Filters:** Periodically clean the dust filters to maintain optimal airflow. The front intake grill is designed for easy removal.
- **Case Cleaning:** Use a soft, damp cloth to clean the exterior surfaces of the case. Avoid abrasive cleaners. For the tempered glass panel, use a glass cleaner and a microfiber cloth.
- **Internal Dusting:** Every few months, open the case and use compressed air to remove dust buildup from fans, heatsinks, and other components.

7. TROUBLESHOOTING

If you encounter issues during or after assembly, consider the following common troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU, GPU PCIe) are securely connected. Verify the PSU switch is in the 'ON' position.
- **Fans Not Spinning/No RGB:** Check fan connections to the motherboard or fan controller. Ensure ARGB headers are correctly connected and configured in software if applicable.
- **No Display:** Confirm the monitor cable is connected to the graphics card (not the motherboard integrated graphics, unless no dedicated GPU is present). Reseat the graphics card and RAM modules.
- **Overheating:** Verify all case fans and CPU cooler fans are spinning correctly. Ensure proper thermal paste application on the CPU. Check for obstructions to airflow.

8. WARRANTY INFORMATION

Cooler Master products are covered by a limited warranty. For detailed warranty terms, conditions, and registration, please refer to the warranty card included with your product or visit the official Cooler Master website.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or to report any issues, please visit the official Cooler Master support website. You can find FAQs, driver downloads, and contact information for your region.

Official Cooler Master Website: www.coolermaster.com

