

Cooler Master MB311L ARGB

Cooler Master MasterBox MB311L ARGB Airflow Micro-ATX Tower User Manual

Model: MB311L ARGB (MCB-B311L-KGNN-S02)

INTRODUCTION

The Cooler Master MasterBox MB311L ARGB is a Micro-ATX PC case designed for optimal airflow and compatibility with modern gaming hardware. It features a fine mesh front panel, dual pre-installed ARGB fans, and a tempered glass side panel. This manual provides essential information for the setup, operation, and maintenance of your PC case.

KEY FEATURES

- **Fine Mesh Front Panel:** Engineered for efficient airflow while preventing dust ingress.
- **Mesh Intakes:** Additional mesh vents on the sides of the front panel enhance airflow.
- **Dual ARGB Fans:** Two pre-installed 120mm Addressable RGB fans with a splitter for motherboard control, allowing for customizable lighting effects.
- **Tempered Glass Side Panel:** Provides a clear view of internal components.
- **Adaptable Drive Cage:** The drive cage can be repositioned or removed to accommodate power supply length or additional radiator space.
- **Versatile Cooling Options:** Supports up to six 120mm fans and various radiator configurations (front, top, rear).
- **I/O Panel:** Includes 2x USB 3.2 Gen 1 ports, 1x 3.5mm Audio Jack, 1x 3.5mm Mic Jack, 1x ARGB 2-to-3 splitter, and 1x ARGB Controller (for S02 versions).

SETUP INSTRUCTIONS

1. Unpacking and Inspection

Carefully remove the case from its packaging. Inspect for any damage that may have occurred during transit. Retain packaging for future transport or warranty claims.

2. Accessing the Interior

Remove the tempered glass side panel by unscrewing the four thumb screws. Gently pull the panel away from the chassis. Remove the rear side panel by unscrewing the two thumb screws at the back of the case and sliding the panel

backward.



Image: Front and side view of the Cooler Master MasterBox MB311L ARGB case, showcasing the mesh front and tempered glass panel.

3. Motherboard Installation

Install the necessary motherboard standoffs according to your motherboard's form factor (Micro-ATX or Mini-ITX).

Carefully place your motherboard into the chassis, aligning it with the standoffs, and secure it with screws.

ROOMY INTERIOR

Support for Micro-ATX or Mini-ITX length motherboards for upgrades to stay ahead of the game.



Image: Interior of the case highlighting the motherboard mounting area, compatible with Mini-ITX and Micro-ATX form factors.

4. Power Supply Installation

Mount your power supply unit (PSU) in the bottom rear compartment of the case. Secure it with screws from the rear of the chassis. Route necessary cables through the cable management cutouts.

5. Storage Drive Installation

Install 3.5-inch hard drives in the adaptable drive cage located in the PSU shroud area. 2.5-inch SSDs can be mounted on the PSU shroud or behind the motherboard tray.

6. Graphics Card and Expansion Cards

Install your graphics card and any other expansion cards into the appropriate PCIe slots on your motherboard. Secure them with screws.

COMPONENTS CLEARANCE

Supports CPU coolers up to a height of 166mm, graphics cards up to a length of 344mm, and power supplies up to a length of 140mm.

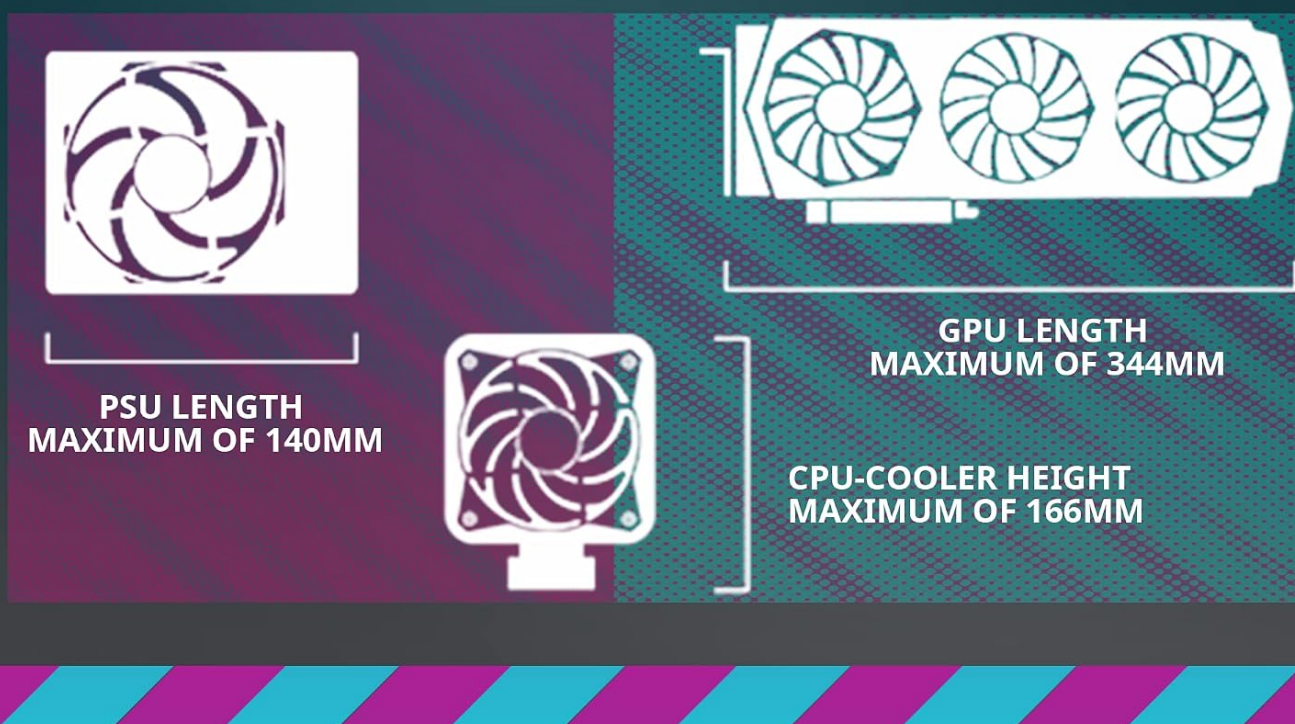


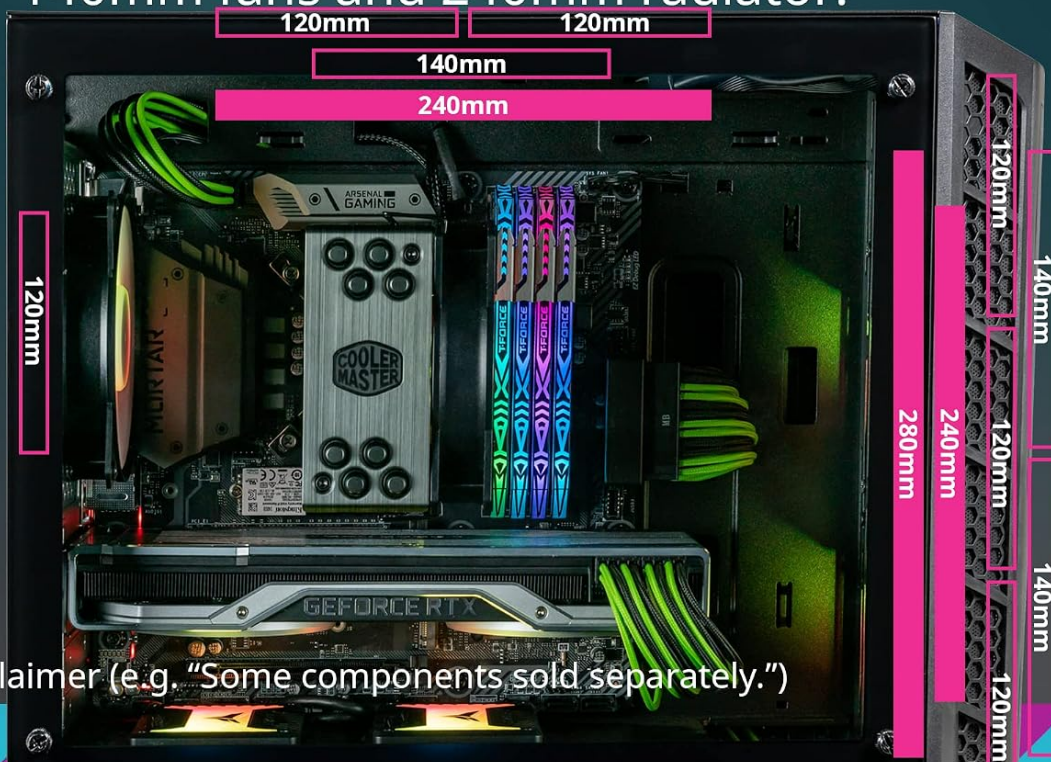
Image: Diagram illustrating maximum component clearances for CPU cooler (166mm), GPU (344mm), and PSU (140mm).

7. Fan and Radiator Installation

The case comes with two pre-installed 120mm ARGB fans at the front. Additional fans or radiators can be installed in the front, top, or rear positions. Refer to the specifications for supported sizes.

VERSATILE COOLING

The front supports 3x 120mm, or 2x 140mm fans and a up to 280mm radiator. The top supports 2x 120mm, or 1x 140mm fans and 240mm radiator.



Legal disclaimer (e.g. "Some components sold separately.")

Image: Diagram detailing fan and radiator support: Front (3x 120mm or 2x 140mm, up to 280mm radiator), Top (2x 120mm or 1x 140mm, 240mm radiator), Rear (1x 120mm).

8. Cable Management

Utilize the cable routing channels and tie-down points behind the motherboard tray to organize cables. This improves airflow and aesthetics.

9. Connecting Front I/O and ARGB

Connect the front panel I/O cables (USB, audio, power, reset) to your motherboard. Connect the ARGB fan cables to the included ARGB splitter and then to your motherboard's ARGB header (5V 3-pin) for software control, or use the included ARGB controller if your motherboard lacks an ARGB header.

DUAL ARGB FANS

Dual 120mm ARGB fans with splitter can be managed by the motherboard, to create a customized ARGB lighting system.

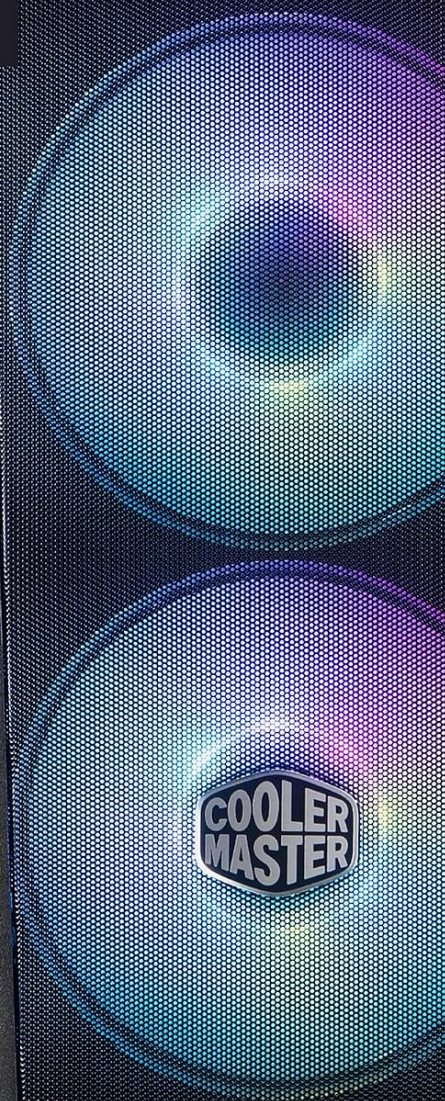


Image: Detail of the dual 120mm ARGB fans and the ARGB splitter, compatible with various motherboard ARGB sync technologies.

OPERATING INSTRUCTIONS

Powering On

Once all components are installed and cables are connected, close the side panels. Connect your power cable to the PSU and press the power button on the front I/O panel to start your system.

ARGB Lighting Control

If connected to a compatible motherboard, use the motherboard's software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync) to customize the ARGB lighting effects of the pre-installed fans. If using the included ARGB controller, refer to its specific instructions for cycling through lighting modes.

MAINTENANCE

Dust Filter Cleaning

Regularly clean the dust filters located on the front panel and under the PSU. These filters are designed to prevent dust buildup inside the case, maintaining optimal airflow and component longevity. Gently remove the filters and clean them with compressed air or water (ensure they are completely dry before reinstallation).

Interior Cleaning

Periodically open the case and use compressed air to remove dust from internal components, especially fan blades, heatsinks, and radiator fins. Ensure the system is powered off and unplugged before cleaning.

TROUBLESHOOTING

- **System Not Powering On:**
 - Ensure all power cables (24-pin ATX, 8-pin CPU, PCIe for GPU) are securely connected.
 - Verify the front panel power switch cable is correctly connected to the motherboard header.
 - Check if the PSU is switched on at the back.
- **Fans Not Spinning or ARGB Not Working:**
 - Confirm fan power cables are connected to the motherboard or fan controller.
 - Ensure ARGB cables are correctly connected to a 5V 3-pin ARGB header or the included controller.
 - Check motherboard software for ARGB control settings.
- **Poor Airflow/High Temperatures:**
 - Clean all dust filters and internal components.
 - Ensure fans are oriented correctly for intake and exhaust.
 - Verify no cables are obstructing airflow paths.
- **Tempered Glass Panel Issues:**
 - Handle the tempered glass with care to prevent damage.
 - Ensure thumb screws are tightened securely but not excessively.

SPECIFICATIONS

Feature	Specification
Model Name	MasterBox MB311L ARGB
Model Number	MCB-B311L-KGNN-S02
Case Type	Micro-ATX Tower
Motherboard Compatibility	Micro ATX, Mini ITX
Materials	Steel, Mesh, Plastic, Tempered Glass
Dimensions (L x W x H)	19.41 x 8.54 x 18.46 inches (493 x 217 x 469 mm)
Weight	12.03 pounds (5.46 kg)

I/O Panel	2x USB 3.2 Gen 1, 1x 3.5mm Audio Jack, 1x 3.5mm Mic Jack, 1x ARGB 2-to-3 splitter, 1x ARGB Controller (S02 versions)
Pre-installed Fans	Front: 2x 120mm ARGB Fans
Fan Support - Front	3x 120mm, 2x 140mm
Fan Support - Top	2x 120mm, 2x 140mm
Fan Support - Rear	1x 120mm
Radiator Support - Front	120mm, 140mm, 240mm, 280mm
Radiator Support - Top	120mm, 240mm
Radiator Support - Rear	120mm
CPU Cooler Clearance	166mm
GPU Clearance	344mm
PSU Clearance	140mm (with HDD cage in rearmost position)
Drive Bays	2x 3.5" HDD, 2x 2.5" SSD

WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For detailed warranty information, technical support, or to register your product, please visit the official Cooler Master website or contact their customer service. Keep your proof of purchase for warranty claims.

Note: No specific warranty duration or support contact information was provided in the product data. Please refer to the manufacturer's official resources for the most current information.

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found in the provided data to embed. Please refer to the manufacturer's official channels for video resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question