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› Cooler Master MasterBox MB600L ATX Mid-Tower User Manual

Cooler Master MCB-B600L-KANN-S00

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Model: MCB-B600L-KANN-S00

PRODUCT OVERVIEW

The Cooler Master MasterBox MB600L is an ATX mid-tower PC case designed for a clean and elegant build. It features a sleek brushed front panel and a red side trim, complemented by an edge-to-edge transparent acrylic side panel for viewing internal components. The interior boasts a full black coating and a PSU cover to facilitate clean cable management and a tidy system build.



Figure 1: Front-left view of the Cooler Master MasterBox MB600L PC case, showcasing its brushed front panel, red side trim, and transparent acrylic side panel.

SETUP AND INSTALLATION

This section provides instructions for setting up your Cooler Master MasterBox MB600L chassis and installing your PC components.

1. Preparing the Chassis

1. Carefully unpack the chassis from its packaging.
2. Place the chassis on a stable, flat surface.

3. Remove the acrylic side panel by unscrewing the four thumb screws.
4. Remove the opposite steel side panel by unscrewing the two rear thumb screws and sliding it backward.



Figure 2: Internal layout of the MasterBox MB600L chassis, showing the motherboard tray, drive bays, and cable routing cutouts, ready for component installation.

2. Motherboard Installation

1. Ensure the correct standoffs are installed for your motherboard form factor (ATX, Micro-ATX, Mini-ITX).
2. Carefully place the motherboard onto the standoffs, aligning the screw holes.
3. Secure the motherboard with the provided screws.

3. Power Supply Unit (PSU) Installation

1. Slide the PSU into its designated compartment at the bottom rear of the chassis.
2. Secure the PSU with screws from the rear of the chassis.
3. Route necessary power cables through the cutouts for cable management.

4. Storage Drive Installation

- **3.5" HDDs:** Install into the tool-less drive cages located under the PSU shroud.
- **2.5" SSDs:** Mount onto the dedicated SSD tray(s) and secure them to the motherboard tray or other designated locations.
- **5.25" Optical Drives:** Remove the front panel bay cover and slide the drive into the 5.25" bay, securing it with the tool-less mechanism.

5. Graphics Card (GPU) and Expansion Card Installation

1. Remove the necessary PCIe slot covers from the rear of the chassis.
2. Insert your graphics card or other expansion cards into the motherboard's PCIe slots.
3. Secure the cards with screws.



Figure 3: A fully assembled MasterBox MB600L system, demonstrating ample space for components and the visual impact of internal lighting through the acrylic side panel.

6. Fan and Radiator Installation

- The case supports up to four 120mm fans, with one 120mm fan pre-installed at the rear.
- Front: Supports up to three 120mm or two 140mm fans, or a 120/240/280/360mm radiator.
- Rear: Supports one 120mm fan or radiator.
- Top: Supports one 120mm fan (MB600L does not support top radiators).

7. Cable Management

Utilize the cable routing cutouts and the space behind the motherboard tray (0.59-0.90 inches) to organize and hide cables for improved airflow and aesthetics. Use zip ties or Velcro straps to secure cables.

OPERATING THE CHASSIS

Once all components are installed and the system is assembled, the MasterBox MB600L provides convenient access to essential functions.

- **Power Button:** Located on the top front panel, used to power on or off the system.
- **Reset Button:** Also on the top front panel, used to restart the system.
- **USB Ports:** Two USB 3.0 ports are available on the top front panel for connecting peripherals and external storage devices.
- **Audio Jacks:** Separate headphone and microphone jacks are provided for audio connectivity.



Figure 4: Top view of the MasterBox MB600L's front I/O panel, detailing the power button, reset button, USB 3.0 ports, and audio jacks for easy access.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your PC components within the MasterBox MB600L chassis.

- **Dust Filter Cleaning:** The chassis includes a removable dust filter for the power supply intake at the bottom. Periodically remove and clean this filter to prevent dust buildup and maintain proper airflow.
- **Interior Cleaning:** Use compressed air to remove dust from internal components, fans, and heatsinks. Ensure the system is powered off and unplugged before cleaning.

- **Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners that may damage the finish or acrylic panel.

TROUBLESHOOTING

This section addresses common issues you might encounter with your PC build in the MasterBox MB600L chassis.

- **High Component Temperatures:**
 - Ensure all case fans are properly installed and functioning, with correct airflow direction (intake/exhaust).
 - Verify that dust filters are clean and not obstructing airflow.
 - Check for proper cable management to avoid impeding airflow.
 - Ensure the case feet provide adequate clearance for the PSU intake fan. If necessary, consider adding taller feet for improved bottom airflow.
- **Excessive Noise:**
 - Identify the source of the noise (fans, hard drives).
 - Ensure all screws are tightened, especially on fans and drive mounts, to prevent vibrations.
 - While the case does not feature sound dampening, ensuring components are securely mounted can reduce resonance.
- **Difficulty Installing 5.25" Drive:**
 - The 5.25" drive bay cover may require firm pressure or gentle prying from the inside to remove.
- **Motherboard Screw Alignment Issues:**
 - Ensure the correct motherboard standoffs are used and properly tightened.
 - If screws do not align, verify the motherboard is seated correctly on all standoffs.

SPECIFICATIONS

Feature	Detail
Model Name	MB600L
Part Number	MCB-B600L-KANN-S00
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro-ATX, Mini-ITX
Materials	Alloy Steel, Plastic
Dimensions (L x W x H)	183.2 x 8.3 x 17.9 inches (approx. 465 x 211 x 455 mm)
Weight	11.1 pounds (approx. 5.03 kg)
5.25" Drive Bays	1
3.5" HDD Drive Bays	2 (compatible with 2.5" SSD)
2.5" SSD Drive Bays	1 (dedicated tray, 4 mounting points)
Expansion Slots	7

Feature	Detail
I/O Panel	2x USB 3.0, Audio In & Out
Pre-installed Fans	1x 120mm (Rear)
Fan Support - Front	3x 120mm or 2x 140mm
Fan Support - Top	1x 120mm
Fan Support - Rear	1x 120mm
Radiator Support - Front	120mm, 140mm, 240mm, 280mm, 360mm
Radiator Support - Rear	120mm
Max GPU Length	400mm (15.7 inches)
Max CPU Cooler Height	160mm (6.3 inches)
Cable Routing - Behind Motherboard Tray	0.59-0.90 inches (15-23mm)
PSU Mounting Type	Bottom Mount
Color	MB600L Red Trim

WARRANTY AND SUPPORT

Cooler Master provides a limited warranty for the MasterBox MB600L chassis.

- **Warranty Period:** This product is covered by a 2-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims.
- **Official User Manual:** For detailed diagrams and further instructions, you can refer to the official PDF user manual available [here](#).
- **Technical Support:** For technical assistance, troubleshooting beyond this manual, or warranty service, please visit the official Cooler Master support website or contact their customer service.

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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