Cooler Master MB600L-KGNN-S00

Cooler Master MasterBox 600 Lite Mid-Tower E-ATX Airflow Case Instruction Manual

1. INTRODUCTION

The Cooler Master MasterBox 600 Lite is a mid-tower PC case designed for optimal airflow and component compatibility. It features a full-coverage FineMesh front panel, supporting extensive cooling configurations and accommodating various high-performance components. This manual provides essential information for setting up, operating, and maintaining your MasterBox 600 Lite case.

Key Features:

- **Superior Airflow:** Full-coverage FineMesh front panel with capacity for triple 140mm intake fans, supporting up to 7 x 120mm case fans (or 5 x 140mm, 1 x 120mm).

- **Premium Design:** Includes removable top/bottom dust filters and a tempered glass side panel for clear visibility of internal components.

- **Extensive Compatibility:** Supports E-ATX motherboards (max. 305 x 277mm), 420mm/360mm front radiators, 280mm/360mm top radiators, and 120mm rear radiators. Accommodates GPUs up to 360mm (max. 410mm without front radiator) and CPU coolers up to 170mm.

- **Back-Connect Support:** Compatible with standard and back-connect motherboards (PROJECT ZERO, BTF) with 33-35mm of cable routing space behind the motherboard tray. Includes 2 x 3.5" HDD cages (removable) and 2 x 2.5" drive bays (max. 6).

- **Modern I/O:** Top I/O panel features 1 x USB 3.2 Gen 1 Type-C (5Gbps) port, 1 x USB 3.2 Gen 1 Type-A (5Gbps), and an audio jack combo.

2. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	Cooler Master
Model Name	MasterBox 600 Lite
Model Number	MB600L-KGNN-S00

Case Type	Mid Tower
Motherboard Compatibility	E-ATX (max. 305 x 277mm), ATX, Micro-ATX, Mini-ITX
Material	Alloy Steel, Tempered Glass, Plastic
Dimensions (L x W x H)	18.66 x 9.06 x 18.94 inches (474 x 230 x 481 mm)
Weight	15.18 pounds (6.89 kg)
Front I/O Ports	1 x USB 3.2 Gen 1 Type-C, 1 x USB 3.2 Gen 1 Type-A, 1 x Audio Jack Combo
Fan Support	Front: 3 x 120mm / 3 x 140mm; Top: 2 x 120mm / 2 x 140mm; Rear: 1 x 120mm
Radiator Support	Front: 420mm / 360mm; Top: 280mm / 360mm; Rear: 120mm
Drive Bays	2 x 3.5" HDD (removable), 2 x 2.5" SSD (max. 6)
GPU Clearance	360mm (max. 410mm without front radiator)
CPU Cooler Clearance	170mm
Power Supply Mounting	Bottom Mount

3. SETUP GUIDE

3.1 Unboxing and Initial Inspection

Carefully remove the MasterBox 600 Lite from its packaging. Inspect the case for any signs of damage during transit. Ensure all accessories, including screws and cable ties, are present.

Figure 3.1: Front-left angled view of the Cooler Master MasterBox 600 Lite case.

3.2 Removing Side Panels

The tempered glass side panel can be easily removed by pulling it from the back. The opposite solid side panel is also removable to access the cable management area.

Figure 3.2: Angled view of the MasterBox 600 Lite with the tempered glass side panel removed, revealing the interior.

3.3 Component Overview

The interior of the MasterBox 600 Lite is designed for easy installation and optimal airflow. The main compartment houses the motherboard, GPU, and CPU cooler, while the bottom shroud conceals the power supply and drive cages.

Figure 3.3: Internal view of the MasterBox 600 Lite with the front panel removed, showing fan mounts and interior layout.

3.4 Motherboard Installation

Install your E-ATX, ATX, Micro-ATX, or Mini-ITX motherboard onto the pre-installed standoffs. Secure it with the provided screws. Ensure proper alignment with the rear I/O shield.

3.5 Power Supply Installation

Mount the power supply in the bottom shroud of the case. Secure it with screws from the rear. Route the necessary cables through the designated cutouts for cable management.

3.6 Fan and Radiator Installation

The case supports various fan and radiator configurations. Install fans on the front, top, and rear mounts as needed. Radiators can be mounted on the front (up to 420mm/360mm) or top (up to 280mm/360mm) for liquid cooling solutions.

3.7 Drive Installation

Install 3.5" HDDs into the removable drive cages located in the PSU shroud. 2.5" SSDs can be mounted in dedicated bays or using adapters in the HDD cages.

3.8 Cable Management

Utilize the generous 33-35mm of space behind the motherboard tray for efficient cable routing. Use the provided cable ties to secure cables and maintain a clean interior for optimal airflow.

3.9 Front I/O Panel Connections

Connect the front I/O panel cables (USB 3.2 Gen 1 Type-C, USB 3.2 Gen 1 Type-A, Audio) to the corresponding headers on your motherboard.

Figure 3.4: Top-down view of the MasterBox 600 Lite's front I/O panel, showing USB ports and audio jack.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the power button on the top I/O panel to turn your PC on or off. A short press typically initiates power on/off, while a long press may force a shutdown.

4.2 Airflow and Cooling

The MasterBox 600 Lite is designed for high airflow. Ensure fans are installed in appropriate intake and exhaust configurations to maintain optimal component temperatures. The FineMesh front panel allows for unrestricted air intake.

5. MAINTENANCE

5.1 Cleaning Dust Filters

The MasterBox 600 Lite includes removable top and bottom dust filters. Regularly clean these filters to prevent dust buildup and maintain optimal airflow. Gently slide out the filters, clean them with water or a soft brush, and ensure they are dry before re-installing.

5.2 Cleaning Exterior and Interior

For the exterior, use a soft, damp cloth to wipe down surfaces. Avoid abrasive cleaners. For the interior, use compressed air to remove dust from components and hard-to-reach areas. Ensure the PC is powered off and unplugged before cleaning.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **No Power:** Check all power connections, including the power supply unit, motherboard 24-pin, and CPU 8-pin connectors. Ensure the power supply switch is in the 'On' position.
- **Overheating:** Verify that all case fans are spinning correctly and installed in the proper airflow direction (intake/exhaust). Clean dust filters and ensure no obstructions are blocking airflow.
- **USB Ports Not Working:** Ensure the front I/O USB cables are securely connected to the correct headers on your motherboard.

- **Noise Issues:** Check for loose cables or components that might be vibrating. Ensure fan screws are tightened.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Cooler Master MasterBox 600 Lite comes with a standard manufacturer's warranty. Please refer to the official Cooler Master website or your purchase documentation for specific warranty terms and conditions.

7.2 Contact Support

For technical assistance, troubleshooting, or warranty claims, please visit the official Cooler Master support website or contact their customer service directly.

Visit Cooler Master Support