



Manuals.plus /

› Cooler Master /

› Cooler Master MasterBox TD500 Mesh White Airflow ATX Mid-Tower User Manual

Cooler Master MCB-D500D-WGNN-S01

Cooler Master MasterBox TD500 Mesh White Airflow ATX Mid-Tower User Manual

Model: MCB-D500D-WGNN-S01

Brand: Cooler Master

1. INTRODUCTION

The Cooler Master MasterBox TD500 Mesh White is an ATX mid-tower PC case designed for high airflow performance and aesthetic appeal. It features a polygonal mesh front panel, a crystalline tempered glass side panel, and comes with three pre-installed 120mm ARGB lighting fans. This manual provides detailed instructions for assembling your PC components within this case, as well as guidance on operation, maintenance, and troubleshooting.



Figure 1.1: Front-left view of the Cooler Master MasterBox TD500 Mesh White case.

2. SETUP AND COMPONENT INSTALLATION

2.1 Unpacking and Inspection

Carefully remove the case from its packaging. Inspect for any signs of damage during transit. Ensure all accessories, including screws, zip ties, and the ARGB controller (if included), are present.

2.2 Accessing the Interior

To access the interior of the case for component installation, gently open the crystalline tempered glass side panel. This panel is designed for easy removal and reattachment.

2.3 Motherboard Installation

The MasterBox TD500 Mesh White supports E-ATX (up to 10.5"), ATX, Micro-ATX, and Mini-ITX motherboards. Align your motherboard with the pre-installed standoffs and secure it using the appropriate screws.



Figure 2.1: Diagram illustrating supported motherboard form factors and their placement within the case.

2.4 Power Supply Unit (PSU) Installation

Install your power supply unit into the dedicated compartment at the bottom rear of the case. Ensure the PSU fan faces downwards for optimal airflow, drawing cool air from beneath the case. Secure the PSU with screws from the rear.



Figure 2.2: Diagram showing maximum clearances for GPU, PSU, and CPU cooler.

2.5 Storage Drive Installation

The case provides multiple mounting options for storage drives. Utilize the HDD cage located under the PSU shroud for 3.5" drives and dedicated mounting points behind the motherboard tray for 2.5" SSDs. Secure drives using the provided screws or tool-less mechanisms.

2.6 Graphics Card (GPU) Installation

Install your graphics card into the appropriate PCIe slot on your motherboard. Ensure the GPU length does not exceed the maximum supported length of 410mm. Secure the GPU with the retention clip or screw at the rear expansion slots.

2.7 Cooling System Installation (Fans & Radiators)

The MasterBox TD500 Mesh White comes with three pre-installed 120mm ARGB fans at the front. Additional fans and radiators can be installed:

- **Front:** Up to three 120mm or two 140mm fans, or up to a 360mm radiator.
- **Top:** Up to three 120mm or two 140mm fans, or up to a 360mm radiator.
- **Rear:** One 120mm fan or a 120mm radiator.

Ensure proper fan orientation for optimal airflow (intake at front, exhaust at rear/top).



Figure 2.3: Overview of fan and radiator mounting locations and supported sizes.



Figure 2.4: Specifications for the included 120mm ARGB fans, including airflow and static pressure.

2.8 Cable Management

Utilize the ample space behind the motherboard tray and the various cutouts and tie-down points to route and secure cables. This improves airflow and maintains a clean interior aesthetic.



Figure 2.5: Rear interior view highlighting the cable management space and drive mounting options.

3. OPERATION

3.1 Power On

Once all components are installed and connected, press the power button located on the top I/O panel to power on your system.

3.2 ARGB Lighting Control

The pre-installed ARGB fans can be controlled via a compatible ARGB motherboard header (5V 3-pin) or an external ARGB controller (not included unless specified). Refer to your motherboard's manual or the ARGB controller's instructions for specific lighting effects and synchronization.



Figure 3.1: Close-up of the Addressable RGB (ARGB) fan connector, requiring a compatible motherboard header or controller.

4. MAINTENANCE

4.1 Dust Filtration

The MasterBox TD500 Mesh White features a polygonal mesh front panel that acts as a dust filter, along with a magnetic filter on the top panel and a removable filter for the PSU intake at the bottom. Regularly clean these filters to maintain optimal airflow and prevent dust buildup inside your system.

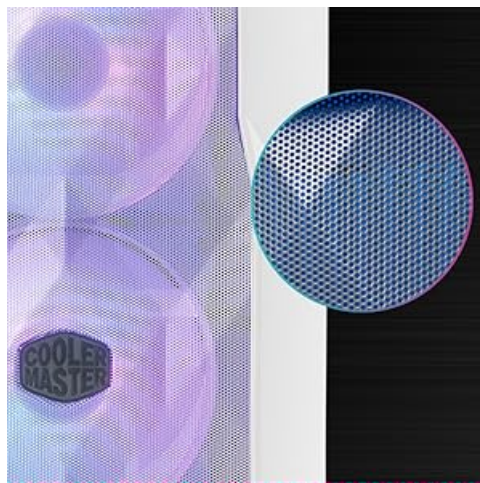


Figure 4.1: Close-up view of the polygonal mesh front panel, designed for high airflow and dust filtration.

4.2 General Cleaning

Use a soft, dry cloth to wipe down the exterior surfaces of the case. For the tempered glass panel, a glass cleaner can be used, applied to the cloth first, not directly to the glass.

5. TROUBLESHOOTING

5.1 System Does Not Power On

- Ensure the power supply is properly connected to the wall outlet and the PSU switch is in the 'ON' position.
- Verify all power cables (24-pin ATX, CPU, GPU, SATA) are securely connected to the motherboard and components.
- Check that the front panel power switch cable is correctly connected to the motherboard's front panel header.

5.2 Fans Not Spinning or ARGB Lighting Not Working

- Confirm that the fan power cables are securely connected to the motherboard fan headers or a fan controller.

- Ensure ARGB cables are correctly connected to a 5V 3-pin ARGB header on the motherboard or an ARGB controller.
- Check your motherboard's BIOS/UEFI settings or ARGB software for fan speed and lighting control.

5.3 Poor Airflow or High Temperatures

- Clean all dust filters (front, top, bottom) to ensure unrestricted airflow.
- Verify that all fans are oriented correctly (front fans as intake, rear/top fans as exhaust).
- Ensure no cables or components are obstructing airflow paths inside the case.

6. SPECIFICATIONS

Feature	Specification
Model Name	TD500 Mesh White
Model Number	MCB-D500D-WGNN-S01
Case Type	Mid Tower
Dimensions (L x W x H)	19.41 x 8.54 x 18.46 inches (493 x 217 x 469 mm)
Materials	Steel, Plastic, Tempered Glass
Motherboard Compatibility	E-ATX (up to 10.5"), ATX, Micro-ATX, Mini-ITX
Expansion Slots	7
Drive Bays	2x 3.5" HDD, 4x 2.5" SSD
Pre-installed Fans	Front: 3x 120mm ARGB Fans
Fan Support (Total)	Front: 3x 120mm / 2x 140mm Top: 3x 120mm / 2x 140mm Rear: 1x 120mm
Radiator Support	Front: 120mm, 140mm, 240mm, 280mm, 360mm Top: 120mm, 140mm, 240mm, 280mm, 360mm Rear: 120mm
Clearances	CPU Cooler: 165mm GPU: 410mm PSU: 180mm (295mm w/o HDD cage)
Dust Filters	Front, Top, Bottom
I/O Panel	2x USB 3.2 Gen 1 (formerly USB 3.0), 1x 3.5mm Audio Jack, 1x 3.5mm Mic Jack, Power Button, Reset Button, ARGB Control Button



Figure 6.1: Case dimensions for planning and compatibility checks.

7. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official Cooler Master website or contact their customer service department. Keep your proof of purchase for warranty claims.

[Visit Cooler Master Official Website](#)