

Cooler Master TD500 Mesh

Cooler Master MasterBox TD500 Mesh Airflow ATX Mid-Tower Instruction Manual

Brand: Cooler Master | Model: TD500 Mesh (MCB-D500D-KGNN-S01)

INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Cooler Master MasterBox TD500 Mesh Airflow ATX Mid-Tower PC case. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.

FEATURES OVERVIEW

- **Polygonal Mesh Front Panel:** Features a 3-dimensional contour, providing high airflow and dust filtration.
- **Crystalline Tempered Glass Side Panel:** Precision engineered for strength and aesthetics through CNC machining.
- **Three Pre-installed 120mm ARGB Fans:** Provides significant airflow and customizable lighting.
- **Extensive Cooling Support:** Supports up to 2x 360mm radiators on the top and front panels, and up to 7x 120mm fans.
- **E-ATX Motherboard Compatibility:** Accommodates motherboards up to 10.5 inches wide.

PHYSICAL OVERVIEW

Front Panel

The front panel features a full mesh design with a polygonal pattern, optimizing airflow. Three 120mm ARGB fans are pre-installed behind the mesh.



Image: Front view of the Cooler Master MasterBox TD500 Mesh case, showcasing the polygonal mesh and illuminated ARGB fans.

Front I/O Ports

Located on the top edge of the front panel, the I/O ports provide convenient connectivity.

FRONT SIDE I/O PORTS



Image: Close-up of the top-front I/O panel, showing 2x USB 3.0 ports, power button, audio jacks, ARGB control button, and 1x USB-C port.

Top Panel

The top panel features a large ventilated section covered by a magnetic dust filter, which can be easily removed for cleaning or fan/radiator installation.

Side Panels

The main side panel is a crystalline tempered glass panel, allowing a clear view of internal components. The opposite side panel is solid steel.

Crystalline Tempered Glass

Polygonal Mesh Design

Triple ARGB Fans



Image: Angled view of the case, highlighting the crystalline tempered glass side panel and the polygonal mesh front panel with ARGB fans.

Rear Panel

The rear panel includes a fan mount for a 120mm fan, motherboard I/O cutout, and a bottom-mounted power supply slot with a removable dust filter.

INTERNAL LAYOUT

The case features a two-compartment design for efficient component separation and cable management.

MOTHERBOARD SUPPORT



MINI-ITX

MICRO-ITX

ATX

Image: Internal view showing motherboard support areas for Mini-ITX, Micro-ATX, and ATX form factors.

Main Compartment

This larger compartment houses the motherboard, supporting up to E-ATX (12" x 10.7" with some limitations). It offers multiple cable routing holes for clean builds.

PSU Shroud

A full-length power supply shroud separates the main compartment from the bottom. It includes a cutout for front radiator installation and a window to display the power supply.

Rear of Motherboard Tray

Behind the motherboard tray, you'll find a fan hub and ARGB controller, pre-wired to the included fans. There are also two mounts for 2.5-inch SSDs and numerous tie-down points for cable management.

Bottom Compartment

The bottom compartment houses the power supply and a removable hard drive cage. The cage supports two 3.5-inch drives and one 2.5-inch drive.

ARGB LIGHTING CONTROL

The three pre-installed ARGB fans are connected to an included fan hub and ARGB controller. Lighting effects and colors can be cycled using the dedicated button on the front I/O panel. The ARGB signal can also be passed through to a compatible motherboard for software control.

SPECIFICATIONS

Feature	Specification
Brand	Cooler Master
Model Name	TD500 Mesh
Item Model Number	MCB-D500D-KGNN-S01
Case Type	Mid Tower
Motherboard Compatibility	ATX, E-ATX (up to 10.5")
Color	TD500 Mesh Black ARGB
Material	Steel, Plastic, Tempered Glass, Mesh
Item Weight	15.29 pounds
Product Dimensions (LxWxH)	22.52 x 11.42 x 22.44 inches
Cooling Method	Fan
Fan Size	120 Millimeters
Power Supply Mounting Type	Bottom Mount

SETUP AND INSTALLATION

The MasterBox TD500 Mesh is designed for ease of assembly and component installation.

Component Clearances



COMPONENT CLEARANCES

CPU COOLER : 165MM

GRAPHICS CARD : 410MM

POWER SUPPLIES : 180MM

Image: Diagram illustrating maximum component clearances: CPU Cooler 165mm, Graphics Card 410mm, Power Supplies 180mm.

Cooling Support

COOLING SUPPORT



Top:

120 x 3 / 140mm x 2 Fans

120 / 240 / 360mm Radiator

Front:

120 x 3 / 140 x 2 Fans

120 / 140 / 240 / 280 / 360 Radiator

Rear:

120 x 1 Fan

120 x 1 Radiator

Image: Diagram detailing fan and radiator support: Top (3x 120mm or 2x 140mm fans; 120/240/360mm radiator), Front (3x 120mm or 2x 140mm fans; 120/140/240/280/360mm radiator), Rear (1x 120mm fan; 1x 120mm radiator).

Panel Removal

The front panel can be easily removed by pulling from the bottom. The top panel is secured by a single thumb screw at the rear and slides off. The tempered glass side panel is secured by a locking screw at the back; once unscrewed, it can be pulled back and lifted off.

Fan and Radiator Installation

The top panel's ventilated section can be fully removed for easier installation of fans or radiators. The front panel supports various fan and radiator configurations as detailed in the specifications.

Drive Installation

The case supports up to two 2.5-inch SSDs mounted behind the motherboard tray. The bottom compartment includes a removable hard drive cage for two 3.5-inch drives and one 2.5-inch drive.

Cable Connections

Utilize the provided cable routing holes and tie-down points for efficient cable management. Connect front I/O cables (USB, audio, power, ARGB) to your motherboard as per your motherboard's manual.

OPERATING

To power on your PC, press the large power button on the front I/O panel. Use the dedicated ARGB button to cycle through lighting effects and colors for the pre-installed fans. For advanced lighting control, connect the ARGB signal to your motherboard and use compatible software.







MAINTENANCE

Regularly clean the magnetic dust filters on the top and bottom of the case to maintain optimal airflow and prevent dust buildup. The front mesh panel can also be removed for cleaning.

TROUBLESHOOTING

If you encounter issues with ARGB lighting, ensure all fan and ARGB connections to the controller and/or motherboard are secure. Refer to your motherboard's manual for specific ARGB header locations and software instructions if attempting motherboard sync.

Related Documents - TD500 Mesh

 Make It Yours. MASTERBOX MB511 ARGB	Cooler Master MasterBox MB511 ARGB PC Case User Manual Comprehensive user manual for the Cooler Master MasterBox MB511 ARGB PC case. Covers installation, component compatibility, ARGB lighting setup, and maintenance for optimal performance and aesthetics.										
 Purchase any of the following products at Newegg.com and receive a rebate by mail. <table border="1"><thead><tr><th>Product</th><th>Rebate Amount</th></tr></thead><tbody><tr><td>Cooler Master MasterBox MB511 ARGB</td><td>\$50</td></tr><tr><td>Cooler Master MasterBox TD500 Mesh V2</td><td>\$50</td></tr><tr><td>Cooler Master MasterBox TD500 Mesh ARGB</td><td>\$50</td></tr><tr><td>Cooler Master CMP 520</td><td>\$50</td></tr></tbody></table> How to Claim Your Rebate: 1. Purchase any of the following products at Newegg.com between February 15, 2021, and March 1, 2021. 2. Fill out the rebate form and attach the receipt. 3. Mail the rebate form and receipt to: Cooler Master Rebate, P.O. Box 1000, Fremont, CA 94539. 4. Your rebate will be mailed to you within 4-6 weeks. Terms and Conditions: This rebate offer is valid for purchases made between February 15, 2021, and March 1, 2021. The rebate is limited to one per customer and is not redeemable for cash. The rebate is void where prohibited.	Product	Rebate Amount	Cooler Master MasterBox MB511 ARGB	\$50	Cooler Master MasterBox TD500 Mesh V2	\$50	Cooler Master MasterBox TD500 Mesh ARGB	\$50	Cooler Master CMP 520	\$50	Cooler Master Mail-In Rebate Offer for Newegg.com Purchases Details of the Cooler Master mail-in rebate promotion for eligible products purchased at Newegg.com between February 15, 2021, and March 1, 2021. Includes product list, claim instructions, and terms.
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 Make It Yours. CMP 520	Cooler Master CMP 520 PC Case Assembly Guide and Warranty Information A comprehensive guide for assembling the Cooler Master CMP 520 computer case, detailing parts, step-by-step installation, and warranty information.										
 Make It Yours. MASTERBOX TD500 MESH	Cooler Master MasterBox TD500 PC Case Installation Guide Comprehensive installation guide for the Cooler Master MasterBox TD500 PC case, covering package contents, component installation, and technical support information.										

