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Cooler Master TD300-WGNN-S00

Cooler Master TD300 Mesh White PC Case User Manual

Model: TD300-WGNN-S00

1. PRODUCT OVERVIEW

The Cooler Master TD300 Mesh is a compact mini-tower PC case designed for high airflow and efficient cooling. It features a unique 3D FineMesh front panel for optimal dust filtration and air intake, along with an edge-to-edge tempered glass side panel for showcasing internal components. This chassis supports Micro-ATX and Mini-ITX motherboards and offers flexible configuration options for storage and cooling solutions.



Figure 1.1: Front angled view of the Cooler Master TD300 Mesh White PC Case, highlighting the mesh front panel and tempered glass side panel.

2. KEY FEATURES

- **Tessellated Mesh Intake:** Front panel with FineMesh technology for superior dust filtration and high airflow.
- **Pre-installed ARGB Fans:** Includes two 120mm ARGB Sickleflow fans for immediate cooling and customizable lighting.
- **Integrated PWM/ARGB Hub:** A 4-fan hub is included for synchronized system lighting and fan control.
- **Tempered Glass Side Panel:** Edge-to-edge tempered glass for clear viewing of internal components.
- **Removable Top Panel:** Fully detachable top panel simplifies component installation and maintenance.

- **Flexible Storage Options:** Repositionable HDD/SSD drive cage under the PSU shroud.
- **Extensive Cooling Support:** Accommodates up to 360mm radiators in the front and 280mm radiators on top.
- **Motherboard Compatibility:** Supports Mini-ITX and Micro-ATX motherboards.

3. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- Cooler Master TD300 Mesh White PC Case
- 2 x 120mm ARGB Sickleflow Fans (pre-installed)
- 1 x Integrated PWM/ARGB Hub
- Accessory Box (screws, zip ties, standoffs, etc.)
- User Manual (this document)

4. SETUP AND INSTALLATION

Before beginning installation, ensure your workspace is clear and you have all necessary components and tools. It is recommended to wear an anti-static wrist strap to prevent damage to sensitive electronic components.

4.1 Preparing the Case

1. Carefully remove the tempered glass side panel by unscrewing the thumb screws at the rear and gently sliding it off. Place it on a soft, flat surface to prevent scratches.
2. Remove the rear side panel to access the cable management area.
3. If installing a top radiator or fans, the top panel can be detached by removing the screws securing it.



Figure 4.1: Interior view of the case with the tempered glass side panel removed, showing the main chamber.

4.2 Motherboard Installation

1. Install the I/O shield into the motherboard cutout at the rear of the case.
2. Align your Micro-ATX or Mini-ITX motherboard with the pre-installed standoffs. Ensure the screw holes on the motherboard align with the standoffs.
3. Secure the motherboard using the provided screws. Do not overtighten.

4.3 Power Supply Unit (PSU) Installation

1. Position the PSU into the dedicated compartment at the bottom rear of the case.

2. Secure the PSU from the rear of the case using the appropriate screws.
3. Route the necessary power cables through the cutouts to the main chamber for component connection.

4.4 Storage Drive Installation (HDD/SSD)

The case supports multiple storage configurations:

- **3.5" HDD:** Install into the adjustable drive cage located under the PSU shroud. The cage can be repositioned for additional radiator or PSU space.
- **2.5" SSD:** Mount SSDs to the dedicated mounting points on the motherboard tray or on top of the PSU shroud.



Figure 4.2: Rear interior view of the case, showing the cable management area and the integrated PWM/ARGB hub.

4.5 Graphics Card (GPU) Installation

1. Remove the necessary PCIe slot covers at the rear of the case.
2. Insert your graphics card into the appropriate PCIe slot on the motherboard.
3. Secure the graphics card with screws.

4.6 Fan and Radiator Installation

The TD300 Mesh offers versatile cooling options:

- **Front:** Supports up to 3 x 120mm fans or 1 x 360mm radiator. Two 120mm ARGB fans are pre-installed.
- **Top:** Supports up to 2 x 140mm fans or 1 x 280mm radiator.
- **Rear:** Supports 1 x 120mm fan or 1 x 120mm radiator.

Connect fan power cables to the motherboard or the included PWM/ARGB hub. Connect ARGB cables to the hub for synchronized lighting.



Figure 4.3: Interior view from the rear, showing fan mounting points and the pre-installed ARGB fans.

4.7 Cable Management

Utilize the cable routing cutouts and tie-down points behind the motherboard tray to organize cables. This improves airflow and aesthetics. The integrated PWM/ARGB hub helps centralize fan and lighting connections.

4.8 Final Assembly

1. Once all components are installed and cables are managed, reattach the rear side panel.

2. Carefully reattach the tempered glass side panel, ensuring it seats correctly, and secure it with the thumb screws.

5. OPERATING THE PC CASE FEATURES

The Cooler Master TD300 Mesh case provides convenient front I/O ports and integrated ARGB control.

5.1 Front I/O Panel

The top front panel includes:

- Power Button
- Reset Button
- 2 x USB 3.2 Gen 1 Type-A Ports
- 1 x 3.5mm Headset Jack (Audio+Mic)
- ARGB Control Button (if connected to the hub)



Figure 5.1: Top-down view of the case front, showing the I/O panel with USB ports, audio jacks, and control buttons.

5.2 ARGB Lighting Control

The pre-installed ARGB fans and the integrated hub allow for customizable lighting effects. You can control the lighting in two ways:

- **Via Motherboard Software:** If the ARGB hub is connected to a compatible motherboard's ARGB header, you can use the motherboard's lighting control software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion) to synchronize and customize lighting.
- **Via Case Button:** If not connected to a motherboard ARGB header, or if you prefer, use the dedicated ARGB

control button on the front I/O panel to cycle through pre-set lighting modes and colors.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your PC components.

- **Dust Filters:** The front mesh panel and top magnetic dust filter are designed to prevent dust ingress. Periodically remove and clean these filters using compressed air or by rinsing with water (ensure they are completely dry before reinstallation).
- **Interior Cleaning:** Use compressed air to blow dust out of internal components (fans, heatsinks, GPU fins) every few months.
- **Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners.
- **Tempered Glass:** Clean the tempered glass panel with a microfiber cloth and a glass cleaner designed for electronics.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Issue: PC does not power on after assembly.

Solution:

- Ensure the PSU is switched on and properly connected to the wall outlet.
- Verify all power cables (24-pin ATX, CPU, GPU, storage) are securely connected to the motherboard and components.
- Check that the front panel power switch cable is correctly connected to the motherboard's F_PANEL header. Refer to your motherboard manual for correct pinout.
- Confirm that the CPU and RAM are correctly seated.

Issue: ARGB fans are not lighting up or are not synchronized.

Solution:

- Ensure the ARGB cables from the fans are properly connected to the integrated PWM/ARGB hub.
- Verify the hub is receiving power (usually via a SATA power connector from the PSU).
- If using motherboard software, ensure the hub's ARGB cable is connected to a compatible 3-pin 5V ARGB header on the motherboard (not a 4-pin 12V RGB header).
- Try pressing the ARGB control button on the front I/O panel to cycle through modes.

Issue: Poor airflow or high temperatures.

Solution:

- Check that all case fans are spinning correctly and are oriented for optimal airflow (front intake, rear/top exhaust).
- Clean dust filters and internal components as described in the Maintenance section.
- Ensure proper cable management to avoid obstructing airflow.
- Verify CPU cooler and GPU cooler are properly installed and functioning.

8. SPECIFICATIONS

Category	Specification
Model Name	MasterBox TD300 Mesh
Model Number	TD300-WGNN-S00
Case Type	Mini-Tower
Color	TD300 Mesh White
Materials	Steel, Mesh, Tempered Glass
Dimensions (L x W x H)	433 x 210 x 420.5 mm (17.05 x 8.27 x 16.56 inches)
Weight	5.84 kg (12.87 pounds)
Motherboard Support	Mini-ITX, Micro-ATX
Expansion Slots	4
Drive Bays	2 x 3.5" (Combo 3.5"/2.5"), 2 x 2.5"
I/O Panel	2 x USB 3.2 Gen 1 Type-A, 1 x 3.5mm Headset Jack, 1 x ARGB Control Button
Pre-installed Fans	Front: 2 x 120mm ARGB Sickleflow Fans
Fan Support	Front: 3 x 120mm / 2 x 140mm; Top: 2 x 120mm / 2 x 140mm; Rear: 1 x 120mm
Radiator Support	Front: 120mm, 140mm, 240mm, 280mm, 360mm; Top: 120mm, 140mm, 240mm, 280mm; Rear: 120mm
Clearances	CPU Cooler: 166mm; GPU: 344mm; PSU: 325mm (w/o HDD cage), 160mm (w/ HDD cage)
Dust Filters	Front, Top, Bottom
Power Supply Support	Bottom Mount, ATX PS2

9. WARRANTY AND SUPPORT

Cooler Master products come with a limited warranty. For detailed warranty information, please visit the official Cooler Master website or refer to the warranty card included with your product.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Cooler Master customer service through their official support channels:

- **Website:** www.coolermaster.com/support/
- **Contact Information:** Refer to the support section on the website for regional contact details.

When contacting support, please have your product model number (TD300-WGNN-S00) and proof of purchase readily available.

