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## Supermicro MCP-310-18003-0N

# Supermicro MCP-310-18003-0N Air Shroud User Manual

Model: MCP-310-18003-0N

## 1. Introduction

The Supermicro MCP-310-18003-0N Air Shroud is a specialized component designed to optimize airflow within a personal computer chassis, specifically for Supermicro X8 DP ATX motherboards. Its primary function is to direct cooling air efficiently over critical components such as the CPU(s) and RAM modules, enhancing thermal performance and system stability. This manual provides essential information for the proper installation, operation, and maintenance of your air shroud.



Figure 1: The Supermicro MCP-310-18003-0N Air Shroud, a black, L-shaped component designed to direct airflow within a PC case.

#### 2. SAFETY INFORMATION

Please read and understand all safety precautions before handling or installing the air shroud. Failure to follow these guidelines may result in personal injury or damage to your equipment.

- **Power Disconnection:** Always ensure that the computer system is completely powered off and unplugged from the electrical outlet before opening the chassis or installing any internal components.
- Static Electricity: Computer components are sensitive to electrostatic discharge (ESD). Use an anti-static wrist strap or frequently touch a grounded metal object (like the unpainted metal part of the computer chassis) to dissipate static electricity before handling the air shroud.
- Sharp Edges: Be cautious of sharp edges on the air shroud or within the computer chassis during installation.
- **Ventilation:** Ensure adequate ventilation around your computer system to prevent overheating. The air shroud is designed to improve internal airflow, but external ventilation is also crucial.

#### 3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact your vendor immediately.

- Supermicro MCP-310-18003-0N Air Shroud (1 unit)
- No additional mounting hardware is typically required as this component is designed to fit specific motherboard layouts.

## 4. SETUP AND INSTALLATION

This section outlines the steps for installing the Supermicro MCP-310-18003-0N Air Shroud into your compatible system.

#### 4.1. Pre-installation Checklist

- 1. Ensure your computer system is powered off and disconnected from all power sources.
- 2. Open the computer chassis to access the motherboard area.
- 3. Confirm that your motherboard is a Supermicro X8 DP ATX model, as this air shroud is specifically designed for this form factor and series.
- 4. Clear any obstructions or cables that might interfere with the air shroud's placement.

#### 4.2. Installation Steps

- 1. **Identify Placement:** The air shroud is typically positioned over the CPU(s) and adjacent RAM slots on the motherboard. Refer to your motherboard's manual for specific guidance on airflow components.
- 2. **Align the Shroud:** Carefully align the air shroud with the designated mounting points or guides on the motherboard. The L-shaped design is intended to fit around specific components.
- 3. Secure in Place: Gently press the air shroud down until it clicks or securely seats into place. It should fit snugly without excessive force. Ensure that any clips or tabs on the shroud engage with corresponding slots on the motherboard or chassis.
- 4. **Verify Fit:** Once installed, ensure the air shroud is stable and does not wobble. It should not obstruct any other components, connectors, or expansion slots.
- 5. Close Chassis: Carefully close the computer chassis and reconnect all power and peripheral cables.

## 5. OPERATING

The Supermicro MCP-310-18003-0N Air Shroud is a passive component that functions by directing airflow. Once correctly installed, its operation is integrated with your system's cooling fans.

- **Optimal Airflow:** The air shroud works by creating a more focused path for air from your system fans, ensuring that critical components receive adequate cooling.
- **System Monitoring:** After installation, it is recommended to monitor your system's temperatures (CPU, chipset, etc.) using appropriate software to confirm improved thermal performance.
- Fan Configuration: Ensure your chassis fans are configured to provide sufficient intake and exhaust airflow to complement the air shroud's function.

#### 6. MAINTENANCE

Regular maintenance helps ensure the longevity and effectiveness of your air shroud and overall system cooling.

- **Dust Removal:** Periodically (e.g., every 3-6 months, depending on environment), open your computer chassis and gently remove any accumulated dust from the air shroud and surrounding components using compressed air or a soft brush. Dust buildup can impede airflow.
- Secure Fit Check: During dust removal, visually inspect the air shroud to ensure it remains securely seated and has not become loose due to vibrations or temperature changes.
- Avoid Liquids: Do not use liquid cleaners directly on the air shroud or any internal computer components.

#### 7. TROUBLESHOOTING

This section addresses common issues you might encounter with the air shroud.

- Issue: Air shroud does not fit or is loose.
   Solution: Double-check that your motherboard is a compatible Supermicro X8 DP ATX model. Ensure proper alignment with the motherboard's mounting points. Do not force the shroud; if it doesn't fit, it may be incompatible or misaligned.
- Issue: No noticeable improvement in system temperatures after installation.
   Solution: Verify that the air shroud is correctly installed and securely seated. Ensure that your system's cooling fans are functioning properly and providing adequate airflow. Check for excessive dust buildup on heatsinks or fans.
- Issue: Air shroud obstructs other components or cables.

  Solution: Re-evaluate the placement. While designed for specific motherboards, minor adjustments to cable routing might be necessary. Ensure no cables are pinched or blocking airflow.

#### 8. Specifications

Detailed technical specifications for the Supermicro MCP-310-18003-0N Air Shroud.

Feature	Specification
Brand Name	Supermicro
Manufacturer	Supermicro
Product Model Number	MCP-310-18003-0N
Compatible Devices	Personal Computer (specifically Supermicro X8 DP ATX Motherboards)
Release Year	2011
Product Dimensions (L x W x H)	19.56 x 25.91 x 7.37 cm
Product Weight	226.8 g (0.5 pounds)
ASIN	B003S6VVY2

## 9. WARRANTY AND SUPPORT

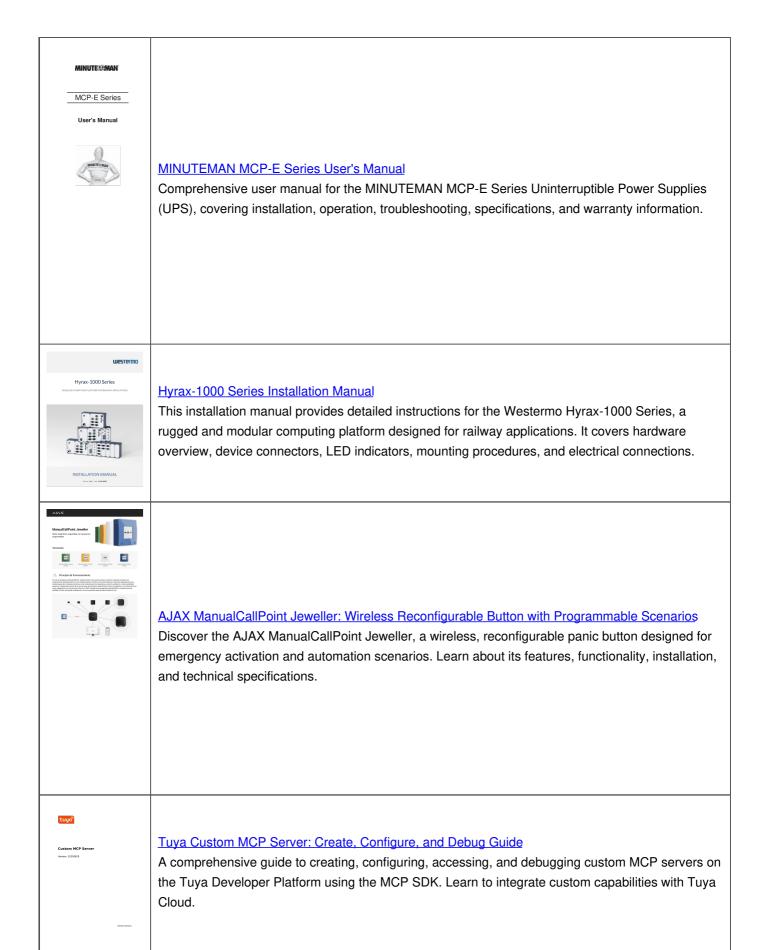
For specific warranty terms and conditions, please refer to the official Supermicro website or the documentation provided with your original motherboard or system purchase. Warranty coverage typically applies to manufacturing defects and may vary based on region and retailer.

For technical support, product inquiries, or to report issues, please contact Supermicro customer support directly through their official website. They can provide the most accurate and up-to-date assistance regarding their products.

Official Supermicro Website: www.supermicro.com

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Related Documents - MCP-310-18003-0N





#### iQ Plus+ Dog Training Collar Code Setting and Warranty Guide

Comprehensive guide for setting up iQ Plus+ dog training collars for one or two dogs, including detailed instructions for code setting and a complete overview of the 1-year warranty and repair procedures for iQ Pet products.



## MCP-1160xxxx and MCP-0655 Series 6-Inch Pneumatic Damper Actuators | KMC Controls

Detailed specifications and features for KMC Controls MCP-1160xxxx and MCP-0655 series 6-inch pneumatic damper actuators, designed for positioning automatic air dampers in pneumatically controlled systems.

#### Documents - Supermicro - MCP-310-18003-0N



#### [pdf] User Manual Parts List Specifications Dimension Guide

SC813MFTQ 441CB 1U Chassis Products Super Micro Computer Inc 813MFTQ 813 SC813 813M SC813MFT SC813MFT SC813MFT 4 44 441 441C Server Supermicro BV pgurl 4247399689999345 siliconexpert s2 2019 7 19 49 57 855839 sprc manual ||| Company News Support SuperChassis 813MFTQ-441CB Print Chassis Manual Optimization Note: Image ab ... -00110-0B - DVM-PNSC-DVD-SBT3 - DVM-TEAC-DVD-SBT4 - MCP-220-81502-0N - MCP-310-18009-0N - MCP-310-18003-0N - MCP-310-19009-0N - MCP-220-00043-0N - Description Sliver chassis rail set f... lang:en score:32 filesize: 342.62 K page\_count: 3 document date: 0000-00-00



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Detailed specifications, key features, and component list for the Supermicro SuperChassis 813MTQ-350CB, a 1U server chassis designed for high performance and reliability. Includes compatibility information for motherboards and servers. lang:en score:31 filesize: 476.21 K page\_count: 3 document date: 0000-00-00





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#### [pdf] Specifications Dimension Guide

SuperChassis 813MF2TQC R804CB servershop bayern de 2 giorni fa — 50 60Hz Dimensions L x W H 220 54 5 40 25 mm Output Type Backplanes gold finger 12V Max 62 5A Min 0 100Vac 127Vac Supermicro product brief EN mediafiles Sonstiges |||

SuperChassis 813MF2TQC-R804CB Key Features 1. 1U chas s is , s upport m otherboard s izes : ATX 12 ... y Description MCP-220-00043-0N - Black hotswap gen 4 3.5 to 2.5 HDD tray MCP-310-18009-0N - MCP-310-18003-0N - MCP-310-19009-0N - CSE-PTFB-813LB - MCP-260-00024-0N - MCP-290-00056-0N ...

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