



AOM-S3108M-H8

User's Guide

Revision 1.0

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FCC Statement: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

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**WARNING:** Handling of lead solder materials used in this product may expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm.

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## Preface

### About this User's Guide

This user's guide is written for system integrators, IT technicians and knowledgeable end users. It provides information for the installation and use of the AOM-S3108M-H8 add-on module.

### About this Add-on Module

The Supermicro AOM-S3108M-H8 is a highly-efficient SAS controller that offers a high level of performance in today's server and storage environments. This module can directly support eight SSD devices and delivers SAS data transfer rates of up to 12Gb/s. Designed for use on the X10DDW-I, X10DDW-iN, X10DDW-iT, X10DRW-i and X10DRW-iT series motherboard, the AOM-S3108M-H8 also supports Supercap, MegaRAID, and can run on Windows and Linux operating systems. Supermicro continues to be an industry leader with the introduction of the AOM-S3108M-H8.

### An Important Note to the User

Your module may or may not look exactly the same as the graphics shown in this user's guide.

### Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning the motherboard to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and the shipping package is mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete. For faster service, You can also request a RMA authorization online (<http://www.supermicro.com/RmaForm/>).

The manufacturer warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alternation, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.

## Conventions Used in the User's Guide

Pay special attention to the following symbols for proper system installation and for safety instructions to prevent damage to the system or injury to yourself:



**Warning:** Important information given to ensure proper system installation or to prevent damage to the components or injury to yourself.



**Note:** Additional information given for proper system setup.

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# Chapter 1

## Overview

### 1-1 Overview

Congratulations on purchasing your add-on module from an acknowledged leader in the industry. Supermicro products are designed with the utmost attention to detail to provide you with the highest standards in quality and performance. For product support and updates, please refer to our website at:

<http://www.supermicro.com/products/accessories/addon/aom-s3108m-h8.cfm>.

### 1-2 Technical Specifications

#### General

- LSISAS 3108
- Supported motherboards: X10DDW-I, X10DDW-iN, X10DDW-iT, X10DRW-i, X10DRW-iT
- Supports RAID 0, 1, 5, 6, 10, 50, 60
- Supports 16 Physical Devices with expander backplane
- Supports MegaRAID Storage Manager Software
- Supports 1.5, 3.0, 6.0, and 12.0 SAS data transfer rates and 3.0 and 6.0 Gb/s SATA data transfer rates
- Supports fastpath (Free) and cache code (AOC-CHCD-PRO2-ESW)
- 2GB DDR3 on-card cache at 1866MHz
- Power Usage: 16W
- Compatible with: Supercap BTR-TFM8G-LSICVM02. Installation kit PN: MCP-240-00127-0N. Spacer Kit: MCP-410-00010-0N (2 Spacers and 4 Screws).

## OS Support

- Windows® Server 2003 (x64 edition, 64-bit, and 32-bit)
- Windows® Server 2008 R2 (x64 edition and 64-bit)
- Windows® Server 2008 (x64 edition, 64-bit, and 32-bit)
- Windows® Vista (x64 edition and 32-bit)
- Windows® XP
- RedHat Enterprise, SuSe Linux

## Physical Dimensions

- Module dimensions: 6" x 2.5" (LxH)

## Chapter 2

# Installation

### 2-1 Static-Sensitive Devices

Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your add-on module, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

#### Precautions

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing the add-on module from the antistatic bag.
- Handle the add-on module by its edges only; do not touch its components, or peripheral chips.
- Put the add-on module back into the antistatic bags when not in use.
- For grounding purposes, make sure that your system chassis provides excellent conductivity between the power supply, the case, the mounting fasteners and the add-on module.

#### Unpacking

The add-on module is shipped in antistatic packaging to avoid static damage. When unpacking your component or your system, make sure that the person handling it is static protected.



**Note:** To avoid damaging your components and to ensure proper installation, be sure to always connect the power cord last, and always remove it before adding, removing or changing any hardware components.

## 2-2 Before Installation

To install the add-on module properly, follow the instructions below.

1. Power down the system.
2. Unplug the power cord.
3. Use industry-standard anti-static equipment (such as gloves or wrist strap) and follow the instructions listed on Page 2-1 to avoid damage caused by ESD

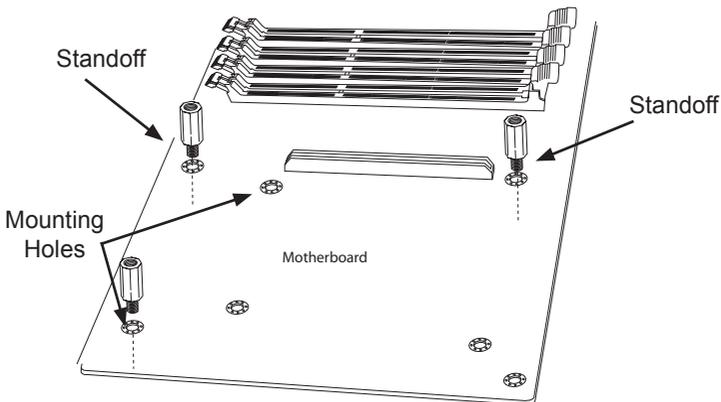
## 2-3 Installing the Add-on Module

The following items are needed to complete the installation:

- AOM-S3108M-H8 Add-on Module
- Supercap: BTR-TFM8G-LSICVM02
- Installation Kit PN: MCP-240-00127-0N
- Spacer Kit: MCP-410-00010-0N (2 Spacers and 4 Screws)

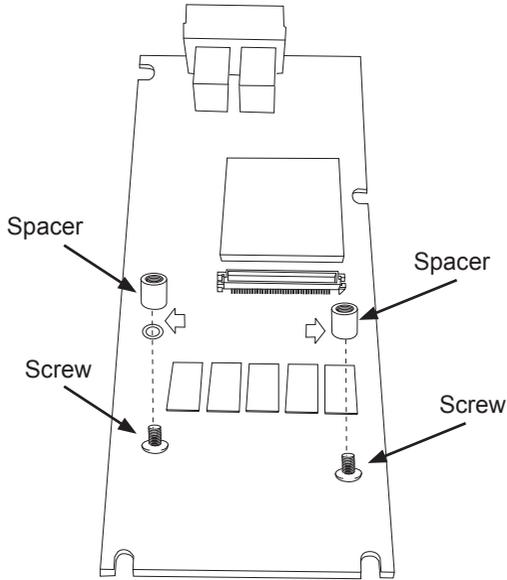
Follow the steps below to install the add-on module in your system.

1. Remove the system cover and set aside any screws for later use.
2. Install standoffs into the mounting holes.

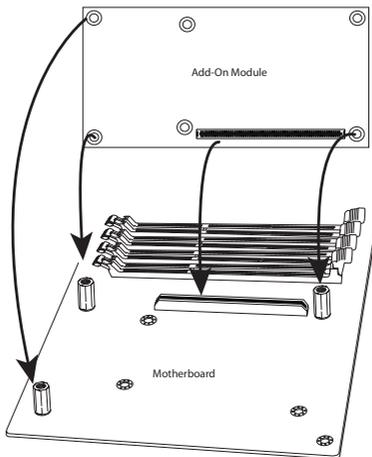


 **Note:** Module graphics in this manual are based on the latest revision. Your module and motherboard may or may not look exactly the same as the graphics shown.

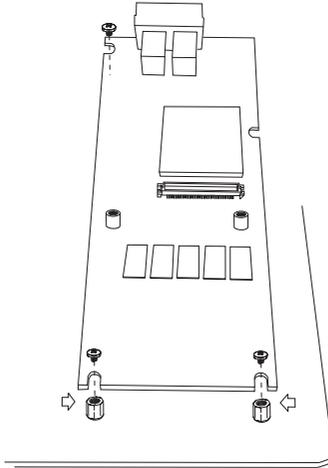
3. Before installing the AOM-S3108-H8 module onto the motherboard, install the spacers onto the middle set of holes on the module. Secure the spacers by tightening the screws on the bottomside of the module.



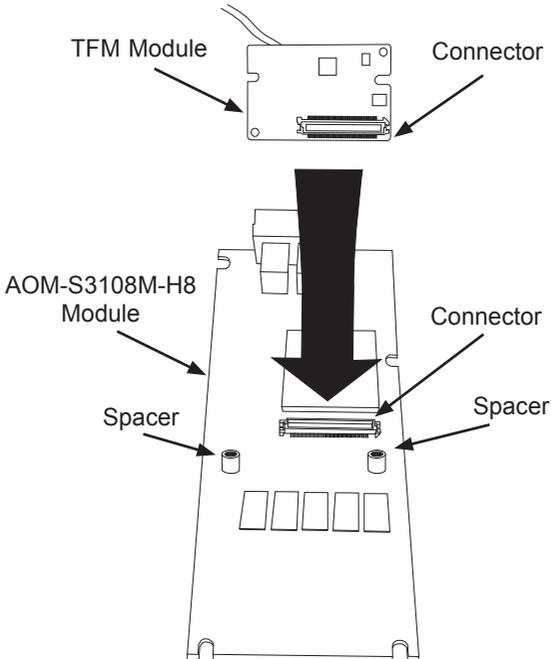
4. Align the connector on the bottom of the add-on module with the PCI-E 3.0 slot on the motherboard.
5. With both hands, press the add-on module down firmly into the slot.



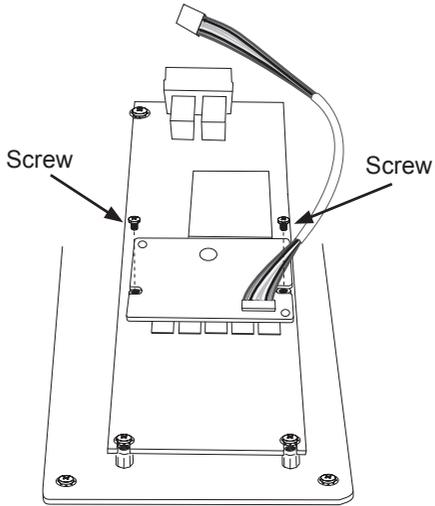
6. With the add-on module securely seated in the slot, insert Pan Head #6 screws into the standoff holes and tighten them with a Phillips screwdriver.



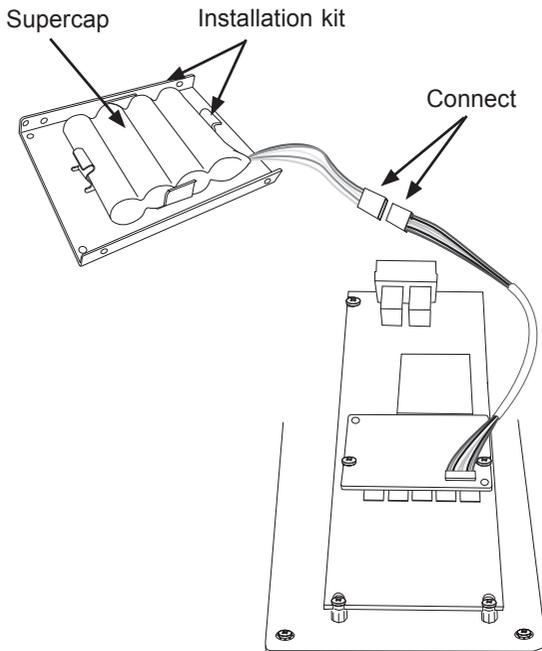
7. Align the connector on the bottom of TFM module with the connector on the AOM-S3108M-H8 module.



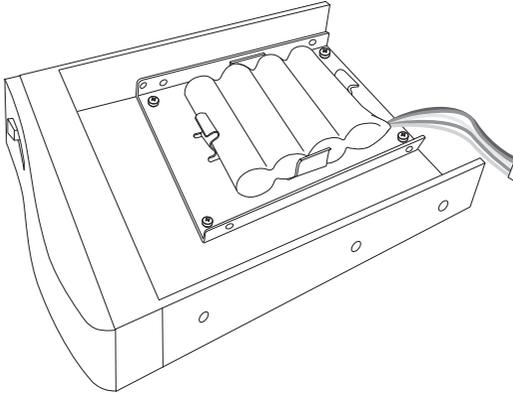
- Press the TFM module down firmly to seat the module correctly in the slot. Insert two screws provided in the spacer kit and tighten them to secure the TFM module.



- With the TFM module seated in the AOM-S3108-H8 module, place the Supercap battery in the installation kit. Connect the Supercap wire with the TFM module wire.



10. Mount the installation kit into a 2.5 inch hard disk drive bay. Insert the drive bay back into the system. Reinstall the system cover, reattach the power cord and power on the system.



(Disclaimer Continued)

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