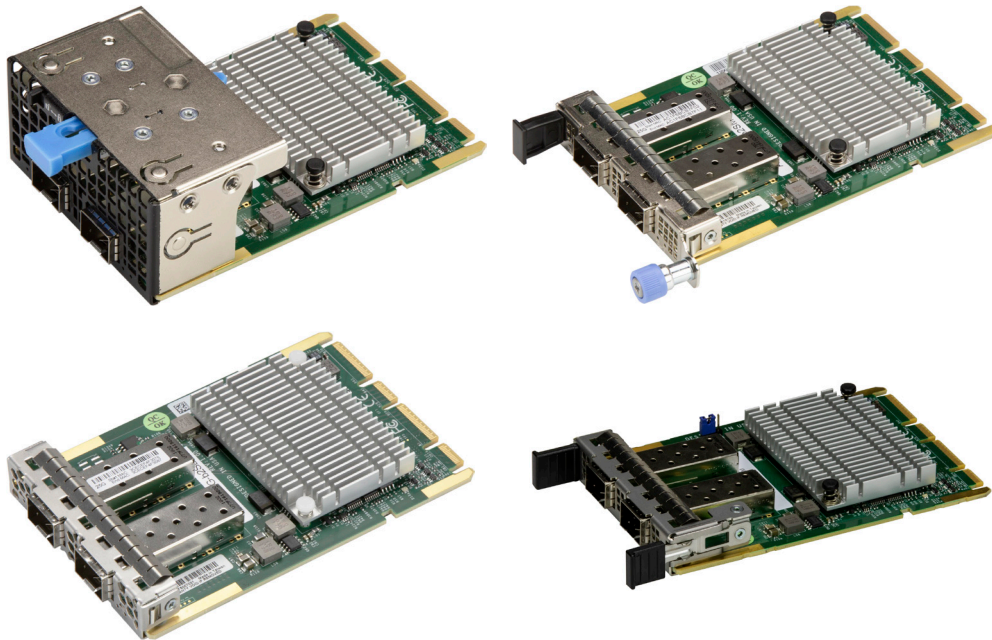




AOC-A25G-b2S  
AOC-A25G-b2SM  
AOC-A25G-b2SB  
AOC-A25G-b2SG



USER'S MANUAL

Revision 1.1b

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Manual Revision 1.1b

Release Date: July 01, 2026

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# Preface

## About This Manual

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 AOC-A25G-b2S/-b2SM/-b2SB/-b2SG add-on card.

## About This Add-On Card

Supermicro® Advanced I/O Modules (AIOM) is the latest form factor designed to provide a wide range of networking options and other I/O technologies. Based on the Broadcom® BCM57414 with features such as VXLAN, NVGRE, and NIC Partitioning, this card provides unparalleled density, performance, and functionality. The Supermicro AOC-A25G-b2S/-b2SM/-b2SB/-b2SG is one of the market's most feature-rich and low-power consumption 25 GbE controllers. As the 25 GbE controller is the most versatile in the market, it is an excellent choice to enhance network connectivity in data centers and enterprise environments.

## An Important Note to the User

All graphic images and layout drawings shown in this user's guide are based upon the latest PCB revision available at the time of publishing this user's guide. The add-on card you have received 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 to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton and 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, RMA authorizations may be requested online (<https://www.supermicro.com/en/support/rma>).

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

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

## Conventions Used in the Manual

Special attention should be given to the following symbols for proper installation and to prevent damage done to the components or injury.



**Warning!** Indicates important information given to prevent equipment/property damage or personal injury.



**Warning!** Indicates high voltage may be encountered while performing a procedure.



**Important:** Important information given to ensure proper system installation or to relay safety precautions.



**Note:** Additional information given to differentiate various models or to provide information for proper system setup.

## Important Links

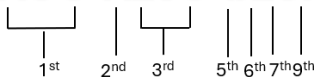
For your system to work properly, follow the links to download all necessary drivers/utilities and the user's manual for your server:

- Supermicro product manuals: <http://www.supermicro.com/support/manuals>
- Product drivers and utilities: <https://www.supermicro.com/wdl/driver>
- Product safety info: <https://www.supermicro.com/en/about/policies/safety-information>
- A secure data deletion tool designed to fully erase all data from storage devices can be found at our website: [https://www.supermicro.com/about/policies/disclaimer.cfm?url=/wdl/utility/Lot9\\_Secure\\_Data\\_Deletion\\_Utility/](https://www.supermicro.com/about/policies/disclaimer.cfm?url=/wdl/utility/Lot9_Secure_Data_Deletion_Utility/)
- If you have any questions, contact our support team at: [support@supermicro.com](mailto:support@supermicro.com)
- Frequently Asked Questions: <https://www.supermicro.com/FAQ/index.php>
- If you have any feedback on Supermicro product manuals, contact our writing team at: [Techwriterteam@supermicro.com](mailto:Techwriterteam@supermicro.com)

This manual may be periodically updated without notice. Check the Supermicro website for possible updates to the manual revision level.

## Naming Convention

### AOC-A25G-b2SM



Character	Representation	Options
1st	Product Family	AOC: Add On Card
2nd	Form Factor	S: Standard, P: Proprietary, C: MicroLP, M: Super IO Module (SIOM), MH: SIOM Hybrid A: Advanced IO Module (AIOM), AH: AIOM Hybrid
3rd	Product Type/Speed	G: GbE (1 Gb/s), TG: 10 GbE (10 Gb/s), 25G: 25 GbE (25 Gb/s), 40G: 40 GbE (40 Gb/s), 50G: 50 GbE (50 Gb/s), 100G: 100 GbE (100 Gb/s), IBE: EDR IB (100 Gb/s), HFI: Host Fabric Interface
4th	Chipset Model (Optional)	N: (82599), P: (i350), S: (X550), F: (XL710/X710), L: (E610)
5th	Chipset Manufacturer	i: Intel, m: Mellanox, b: Broadcom
6th	Number of Ports	1: 1 port, 2: 2 ports, 4: 4 ports, 8: 8 ports
7th	Connector Type (Optional)	S: SFP/SFP+/SFP28, T: 10GBase-T, Q: QSFP+, C: QSFP28
8th	2 <sup>nd</sup> Controller/Connector Type (Optional)	G: 1x GbE RJ45, 2G: GbE 2x RJ45, S: 1x 10G SFP+, T: 10GBase-T, 2T: 2x 10GBase-T, 2S: 2x SFP+
9th	Bracket	For AIOM – Non-M: 1U height bracket for Edge systems only, B: 0.5U height bracket (internal lock) for Blade systems only, G: 0.5U height narrow bracket for Grand Twin Front IO systems, M: 0.5U height bracket (Pull Tab) for all other systems.

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# Chapter 1


## Introduction

### 1.1 Overview

Congratulations on purchasing your add-on card from an acknowledged leader in the industry. Supermicro products are designed with the utmost attention to detail to provide you with the highest standards of quality and performance. For product support and updates, refer to our website at <https://www.supermicro.com/en/products/networking/adapters>.

### 1.2 Key Features

The key features of this add-on card include the following:

- Advanced I/O Module (AIOM) form factor
- Broadcom BCM57414 25 GbE controller
- Support for 25 GbE and 10 GbE speeds
- Dual SFP28 connectors
- vSAN/RDMA
- Network overlay: VXLAN, NVGRE, and Geneve
- NIC Partitioning (NPAR)
- Broadcom TruFlow™ flow processing engine
- Asset Management features with thermal sensor
- NC-SI for remote management
- RoHS compliant 6/6 

## 1.3 Specifications

### General

- Advanced I/O Module (AIOM) form factor
- Broadcom BCM57414 25 GbE controller
- Dual SFP28 ports

### Networking Features

- Jumbo frames (up to 9.6 KB)
- IEEE 802.3x flow control
- IEEE 1588 and time sync
- IEEE 802.3ad link aggregation
- Virtual LANs 802.1q VLAN tagging
- Configuring flow acceleration
- PXE, UEFI, iSCSI remote boot
- vSAN/RDMA

### Stateless Offload Features

- TCP, UDP, and IP checksum offloads
- IPv4 and IPv6 offloads
- Large Send Offload (LSO)
- Receive Segment Coalescing (RSC)
- TCP Segmentation Offload (TSO)
- Large Receive Offload (LRO)

- Receive Side Scaling (RSS)
- Transmit Side Scaling (TSS)
- Accelerate Received Flow Steering (RFS)

### **NIC Partitioning (NPAR)**

- 16 physical functions
- QoS per partition
- Partitioning control via sideband communication
- Up to 64 MAC/VLAN filters per partition
- Per partition statistics support
- Stateless offloads configuration per partition
- VEB/VEPA support

### **Virtualization Features**

- NetQueue, VMQueue, and Multiqueue
- SR-IOFV with up to 128 Virtual Functions (VFs)
- Network overlay: VXLAN, NVGRE, and Geneve
- Edge Virtual Bridging (EVB)

### **Flos Processing Features**

- Exact/Wildcard Match Flow Lookup
- VLAN insertion/deletion
- NAT/NAPT/Mirroring

## Data Center Bridging

- Priority-Based Flow Control (PFC; IEEE 802.1Qbb)
- Enhanced Transmission Selected (ETS; IEEE 802.1Qau)
- Quantized Congestion Notification (QCN; IEEE 802.1Qau)
- Data Center Bridging Capability eXchange (DCBX; IEEE 802.1Qaz)
- Eight traffic classes per port; fully DCB compliant per 802.1bb

## Power Savings

- ACPI compliant power management
- PCI Express Active State Power Management (ASPM)
- Ultra-low-power mode

## Power Consumption

- Maximum power consumption: 7.7 W

## Operating Conditions

- Storage temperature: -40°C to 70°C (-40°F to 158°F)
- Storage humidity: 90% non-condensing relative humidity at 35°C (95°F)

## Physical Dimensions

- Card PCB dimensions: 2.99" x 4.53" (76 mm x 115 mm) (W x D)

## 1.4 Available SKUs



**Note:** This product is sold only as part of an integrated solution with Supermicro server systems.

SKUs	Bracket Included	Description
AOC-A25G-b2S	BKT-0165L	2-port 25 Gigabit Ethernet Adapter with a 1U height bracket
AOC-A25G-b2SM	BKT-0166L	2-port 25 Gigabit Ethernet Adapter with a 0.5U height bracket
AOC-A25G-b2SB	BKT-0180L	2-port 25 Gigabit Ethernet Adapter with a 0.5U height internal lock bracket (for Blade system only)
AOC-A25G-b2SG	BKT-0209L	2-port 25 Gigabit Ethernet Adapter with a 0.5U height narrow bracket (for Grand Twin front IO system only)

## Chapter 2

### Hardware Components

#### 2.1 Add-On Card Image and Layout

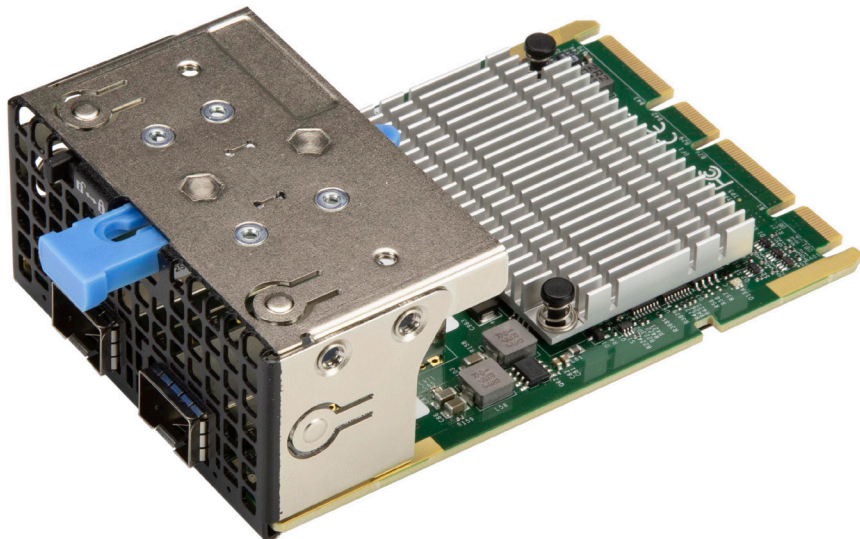


Figure 2-1: AOC-A25G-b2S Side View

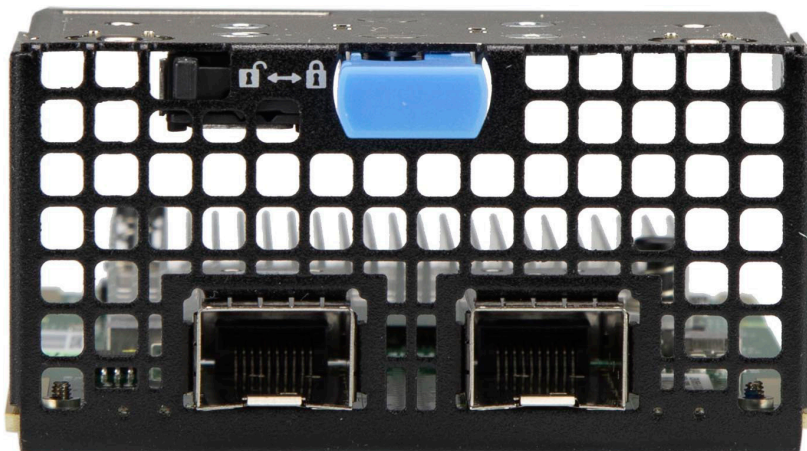
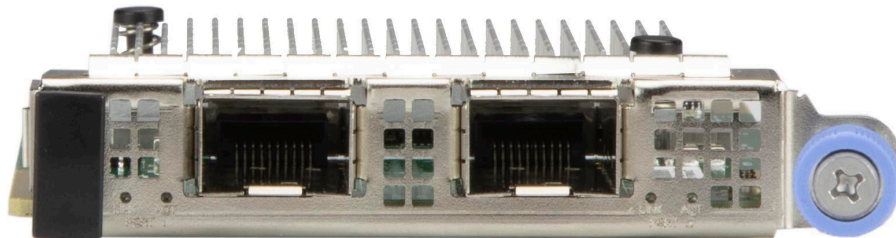


Figure 2-2: AOC-A25G-b2S Front View



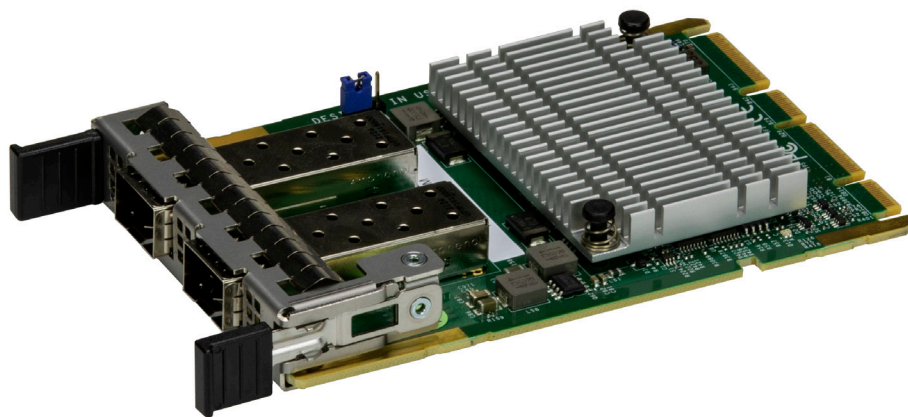
**Figure 2-3: AOC-A25G-b2SM Side View**



**Figure 2-4: AOC-A25G-b2SM Front View**



**Figure 2-5: AOC-A25G-b2SB Side View**



**Figure 2-6: AOC-A25G-b2SG Front View**

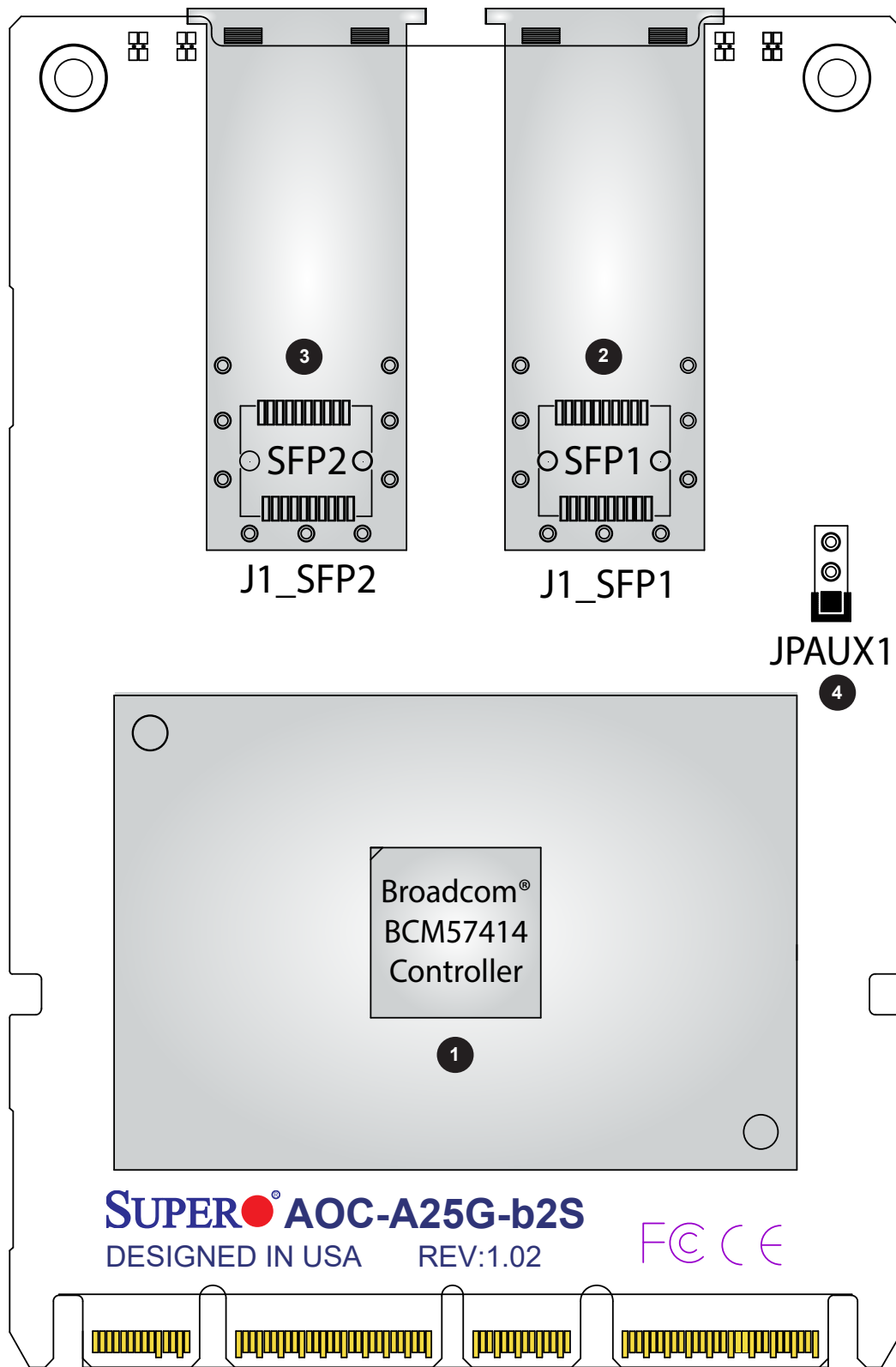


Figure 2-7: AOC-A25G-b2S Layout

## 2.2 Major Components


The following major components are installed on AOC-A25G-b2S/-b2SM/-b2SB/-b2SG:

AOC-A25G-b2S/-b2SM/-b2SB/-b2SG Major Components		
No.	Component Name	Definition
1	Broadcom BCM57414	Ethernet 25 GbE LAN Controller
2	J1-SFP1/SFP1	SFP28 Port 1
3	J1-SFP2/SFP2	SFP28 Port 2
4	JPAUX1	1–2: Enable AUX Power
		2–3: Disable AUX Power (Default)

## 2.3 SFP28 Ethernet Connections

### SFP28 (SFP1/SFP2) Connectors

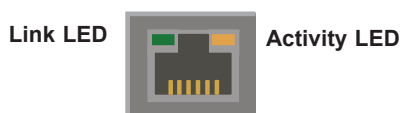
The AOC-A25G-b2S/-b2SM/-b2SB/-b2SG has two network LAN (SFP28) ports. These LAN ports support connection speeds up to 1 Gbps. Plug the Direct Attached Copper (DAC) cable into the SFP28 port for network connections.

 **Note:** To make sure that the LAN port functions properly, be sure to use the following cable specified by the manufacturer.

LED	Color	Definition
Link (Left)	Amber	10 Gbps
	Green	25 Gbps
Activity (Right)	Green Flashing	Activity

### LAN LED

Each SFP28 connector has two LEDs. The LED on the left indicates link speeds, and the LED on the right indicates the status of the activity of the connector. See the table above for more information.



**Figure 2-8: LED Locations**

## 2.4 Jumper Settings

### Explanation of Jumpers

To modify the operation of the motherboard, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board.

<b>AOC JPAUX1 Set to Disabled</b>	<b>When the System/Motherboard Goes into Standby Mode</b>		
	<b>IPMI Support</b>	<b>FailOver Support</b>	<b>WoL Support</b>
	No	No	No
	<b>When the System/Motherboard Is NOT in Standby Mode</b>		
	<b>IPMI Support</b>	<b>FailOver Support</b>	<b>WoL Support</b>
	Yes	Yes	N/A
<b>AOC JPAUX1 Set to Enabled</b>	<b>When the System/Motherboard Goes into Standby Mode</b>		
	<b>IPMI Support</b>	<b>FailOver Support</b>	<b>WoL Support</b>
	Yes	Yes	Yes
	<b>When the System/Motherboard Is NOT in Standby Mode</b>		
	<b>IPMI Support</b>	<b>FailOver Support</b>	<b>WoL Support</b>
	Yes	Yes	N/A

<b>JPAUX1 for Standby Power</b>	<b>Function</b>	<b>Notes</b>
<b>Disable</b> <i>No standby power to AOC NIC</i>	Disable jumper to disconnect the standby power	Default
<b>Enable</b> <i>Standby power to AOC NIC</i>	Enable jumper to connect standby power to AOC NIC	WoL is supported on port 1 ONLY but limited to platforms with sufficient airflow when it is in standby mode (S5 state) Consult Supermicro before enabling it

## 2.5 Major Components of AIOM Module

The major components of the Supermicro Advanced I/O Modules (AIOM) are the card and bracket. Before a computer system can operate, all slots are required to be populated. If an AIOM module is used, be sure that the bracket is firmly installed into the chassis. This will ensure that the card that is installed to the bracket is seated securely in the motherboard connector. For instructions on how to install and uninstall an AIOM module, refer to [Chapter 3](#).

# Chapter 3

## Installation

### 3.1 Major Components

Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your add-on card, 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 card from the antistatic bag.
- Handle the add-on card by its edges only; do not touch its components or peripheral chips.
- Put the add-on card 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 card.

#### Unpacking

The add-on card is shipped in antistatic packaging to avoid static damage. When unpacking your component or system, make sure you are static protected.



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

## 3.2 Before Installation

To install the add-on card properly, be sure to follow the instructions:

1. Power down the system.
2. Remove the power cord from the wall socket.
3. Use industry-standard anti-static equipment (such as gloves or wrist strap) and follow the instructions listed on [page 21](#) to avoid damage caused by ESD.
4. Familiarize yourself with the server, motherboard, and/or chassis documentation.
5. Confirm that your operating system includes the latest updates and hot fixes.

## 3.3 Uninstalling and Installing the Add-on Card (with 1U Bracket)

Take the following steps to install an add-on card into your system. If the system is fixed onto a rack, the removal of the server top cover is not required. If the system is not anchored to a fixed structure, it is recommended to remove the system's top cover for ease of installation.

### A. Uninstalling an AIOM Module

1. Slide the black latch to the left to the "unlock" position.
2. Disengage the AIOM module from the chassis structure by pushing the blue latch once to extend it outward.
3. Pull the blue latch to disengage the AIOM module from the motherboard connector.
4. Gently slide the AIOM module out.

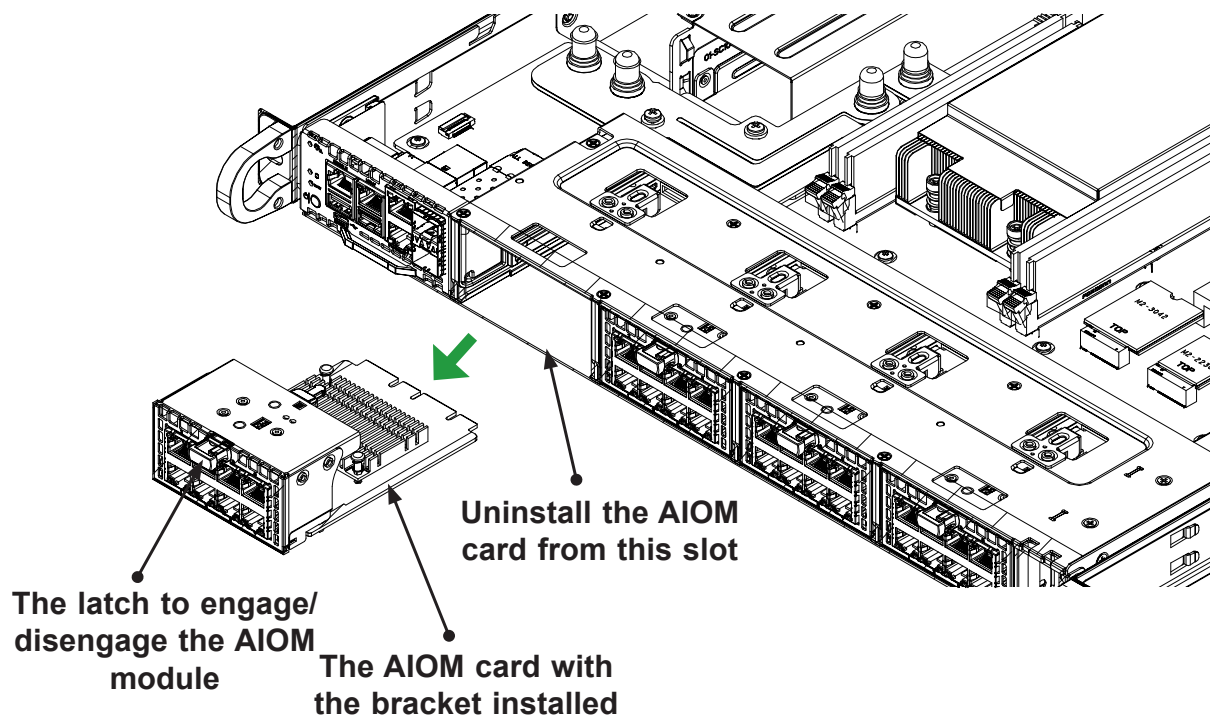


Figure 3-1: Uninstalling the AIOM Module

## B. Installing an AIOM Module

1. Position the AIOM module in front of the empty slot.
2. Gently push onto the metal bracket (do not use the blue latch). The AIOM module should slide into the chassis until the card is securely seated in the connector.
3. Press the blue latch to properly secure it onto the chassis.
4. Move the black latch to the right to "lock" the position.



Figure 3-2: Black Latch

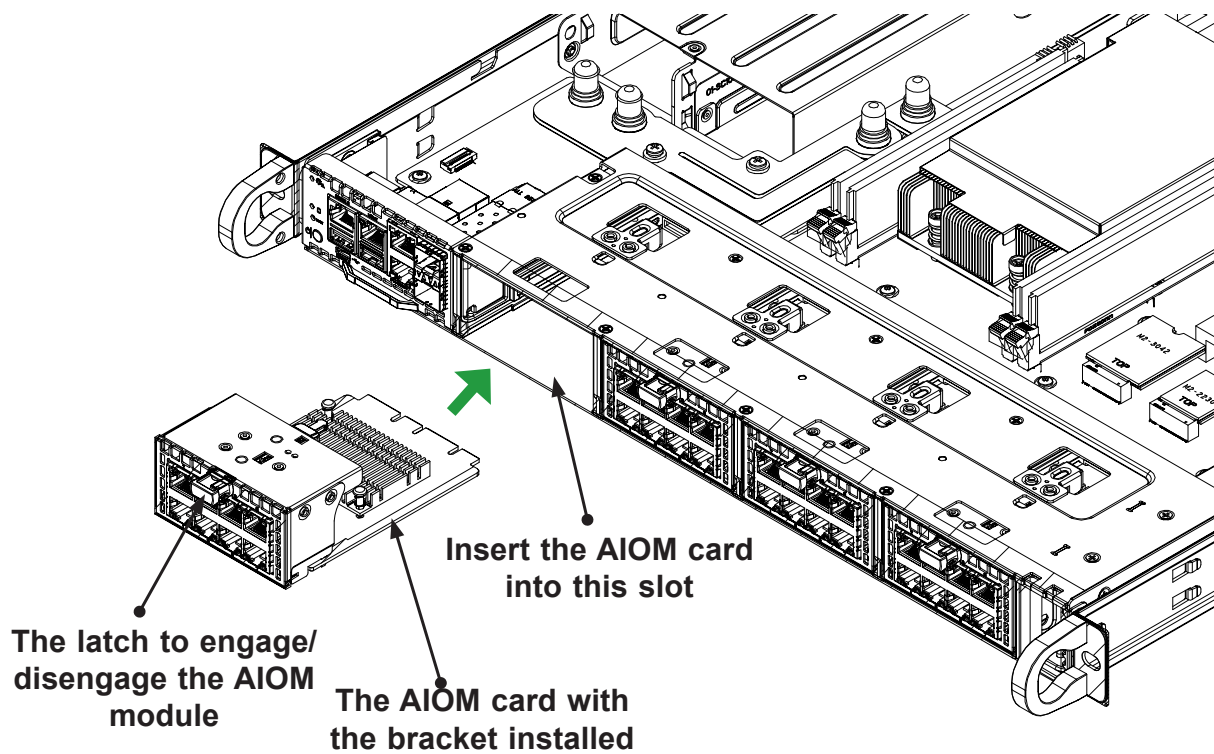



Figure 3-3: Installing the AIOM Module

 **Note:** A computer system should not be operating with an empty AIOM slot. All slots should be populated with AIOM modules, AIOM slot covers, or combinations of both.

### C. Installing an AIOM Module (with an AIOM Slot Cover)

1. Remove the AIOM slot cover by pulling the two handles.
2. Position the AIOM module in front of the empty slot.
3. Gently push onto the metal bracket (do not use the blue latch). The AIOM module should slide into the chassis until the card is fully seated inside the connector.
4. Press the blue latch to secure it onto the chassis structure.

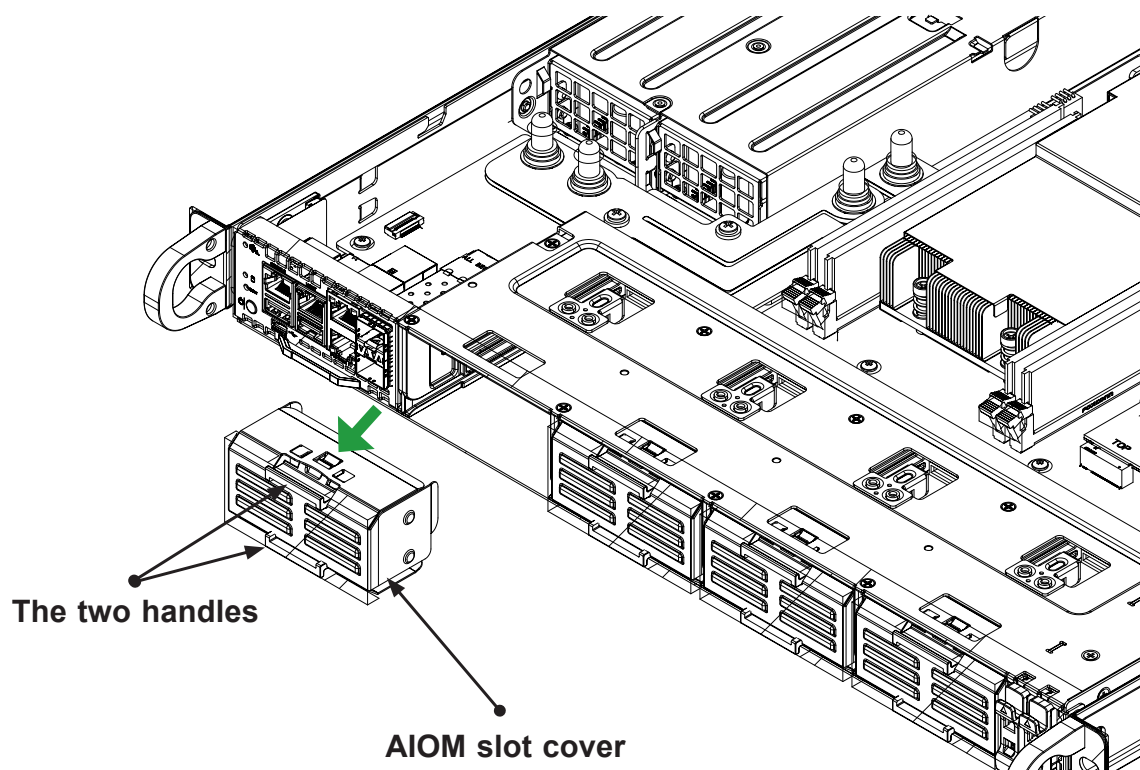



Figure 3-4: Installing the AIOM Module With Slot Cover

 **Note:** This AIOM module does not support hot plug. Turn off the AC power and remove the power cord from the wall socket before installing or removing an AIOM module.

## 3.4 Installing the Add-on Card (with 0.5U Bracket)

Take the following steps to install an add-on card into your system. If the system is fixed onto a rack, the removal of the server top cover is not required. If the system is not anchored to a fixed structure, it is recommended to remove the system's top cover for ease of installation.

### A. Uninstalling an AIOM Module

1. Unscrew the blue knob from the system.
2. Pull on the tab and a knob evenly on both sides of the card to disengage the AIOM module from the motherboard connector.
3. Gently slide the AIOM module out.

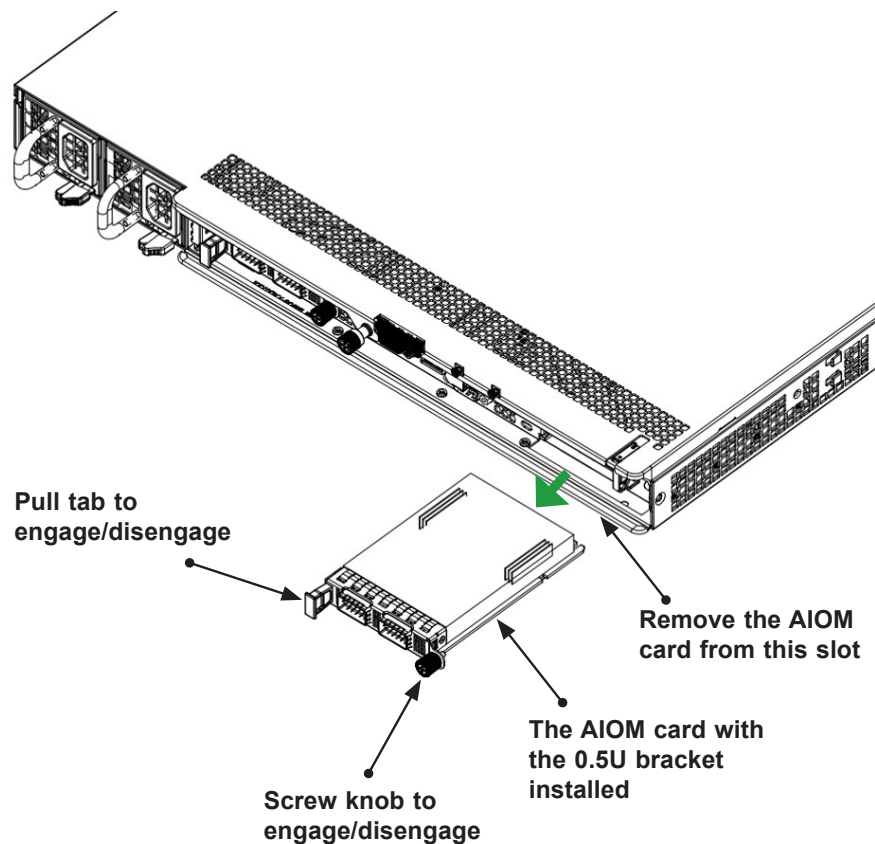


Figure 3-5: Uninstalling the AIOM Module With Slot Clover

## B. Installing an AIOM Module

1. Position the AIOM module in front of the empty slot.
2. Gently push it onto the metal bracket. The AIOM module should slide into the chassis until the card is securely seated in the connector.
3. Press the blue knob.
4. Secure it onto the chassis by turning the knob clockwise.

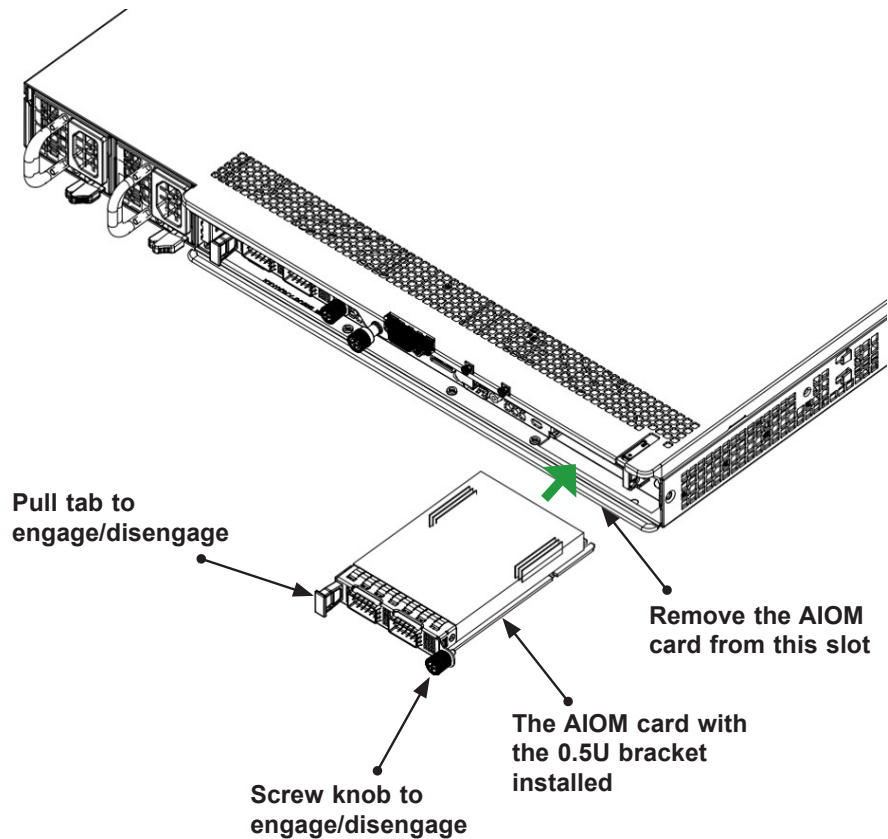
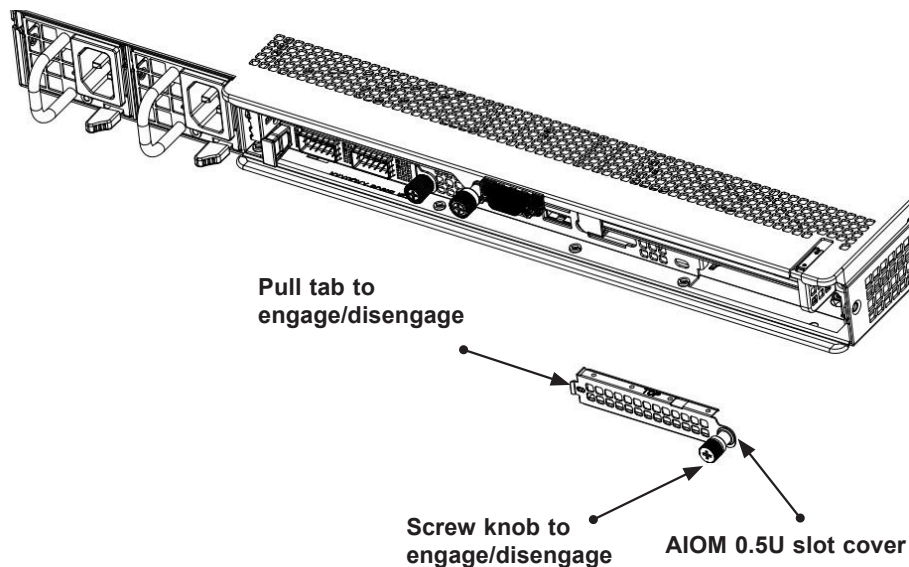



Figure 3-6: Installing the AIOM Module

### C. Installing an AIOM Module (with an AIOM Slot Cover)

1. Remove the AIOM slot cover by removing the knob and screw that is attached to the bracket of the chassis.
2. Pull the bracket away and set it aside.
3. Position the AIOM module in front of the empty slot.
4. Gently push it onto the metal bracket. The AIOM module should slide into the chassis until the card is securely seated in the connector.
5. Press the blue knob.
6. Secure the module onto the chassis by turning the knob clockwise.



**Figure 3-7: Installing the AIOM Module With AIOM Slot Cover**

 **Note 1:** This AIOM module does not support the hot plug. Turn off the AC power and remove the power cord from the wall socket before installing or removing an AIOM module.

**Note 2:** Graphics shown above are for illustration purposes only. Actual products may vary due to product enhancement.

## 3.5 Installing Drivers in Windows/Linux OS (for Broadcom BCM57414)

To install both drivers and firmware for the AOC-A25G-b2S/-b2SM/-b2SB/-b2SG add-on cards, take the following steps to install the drivers on the Windows/Linux operating system:

1. Download the latest driver directly from the [Broadcom Supported Documents and Downloads](#) page.
2. Once the Broadcom driver package has been downloaded and extracted, refer to the README file contained within the downloaded Intel driver package.
3. Follow Broadcom's recommended installation procedure for your operating system.

(Disclaimer Continued)

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