

Supermicro Advanced I/O Module (AIOM) Quad Port 25Gb Network Adapter

Supermicro® Advanced I/O Modules (AIOM) are the latest form factor designed to provide a wide range of networking options as well as other I/O technologies. The AOC-A25G-i4SM/G are one of the most feature rich and low power consumption 25GbE controllers in the market. Based on the Intel Columbiaville E810-CAM1 Ethernet controller with features such as VxLAN, NVGRE, RDMA, and others, it provides unparalleled density, performance, and functionality. The Supermicro® AOC-A25G-i4SM/G are the most versatile 25GbE controllers with the best total cost of ownership for 25GbE deployments in cloud, telco, and enterprise data centers.

Key Features

- **Advanced I/O Module (AIOM) Form Factor**
- **Intel Columbiaville E810-CAM1 25GbE controller**
- **Support for 25GbE and 10GbE Speed**
- **Quad Port SFP28 connectors**
- **PCIe Gen 4.0 x16 (backward compatible to PCI-E 3.0)**
- **Low Latency RDMA over Converged Ethernet (iWARP and RoCE v2)**
- **Intel® Ethernet Adaptive Virtual Function (Intel® Ethernet AVF)**
- **Intel® Ethernet Flow Director – Application Device Queues (ADQ)**
- **Dynamic Device Personalization (DDP)**
- **Hardware Root of Trust with Firmware Recovery**
- **VXLAN, NVGRE and Geneve**
- **Asset Management Features with thermal sensor**
- **Network Controller Sideband Interface (NC-SI) for Remote Management**

AOC-A25G-i4SM



AOC-A25G-i4SG

Specifications

- **General**
 - Advanced I/O Module (AIOM) Form Factor
 - Intel E810-CAM1 25GbE controller
 - Quad Port SFP28
 - Advance Device Queues (ADQ)
 - Dynamic Device Personalization (DDP)
 - **Converged Storage Network**
 - iSCSI
 - SMB Direct
 - iSER
 - NVMe over RDMA (iWARP and RoCEv2)
 - Storage Performance Development Kit (SPDK)
 - NVMe over TCP
 - **RDMA**
 - iWARP
 - RoCEv2
 - **Management and Control**
 - NC-SI over MCTP
 - NC-SI over SMBus
 - MCTP over PCIe
 - BMC
 - PLDM and PLDM based firmware update
 - **Remote Boot**
 - Signed UEFI option ROM compatible with HTTPS boot
 - UEFI PXE Boot
 - **Precision Clocks Synchronization IEEE 802.3ae 10 Gigabit Ethernet**
 - IEEE 1588 (also known as the Precision Time Protocol (PTP))
 - **Power Consumption:**
 - ACPI Compliant power management
 - Pass through Energy Efficient Ethernet (IEEE802.3az-2010)
 - Maximum: 14W
 - **Operating Conditions:**
 - Storage Temperature: -40 °C to 115 °C
 - **Physical Dimensions:**
 - Card PCB dimensions: 76mm x 115mm (W x D)
- Please note that this product is sold only as part of an integrated solution with Supermicro server systems.*

Available SKUs

SKUs	Bracket Included	Description
AOC-A25G-i4SM	BKT-0159L	4-port 25 Gigabit Ethernet Adapter with a 0.5U height bracket.
AOC-A25G-i4SG	BKT-0206L	4-port 25 Gigabit Ethernet Adapter with a 0.5U height Narrow bracket for Grand Twin Front IO systems.