

AOC-A25G-i2SM & AOC-A25G-i2SG



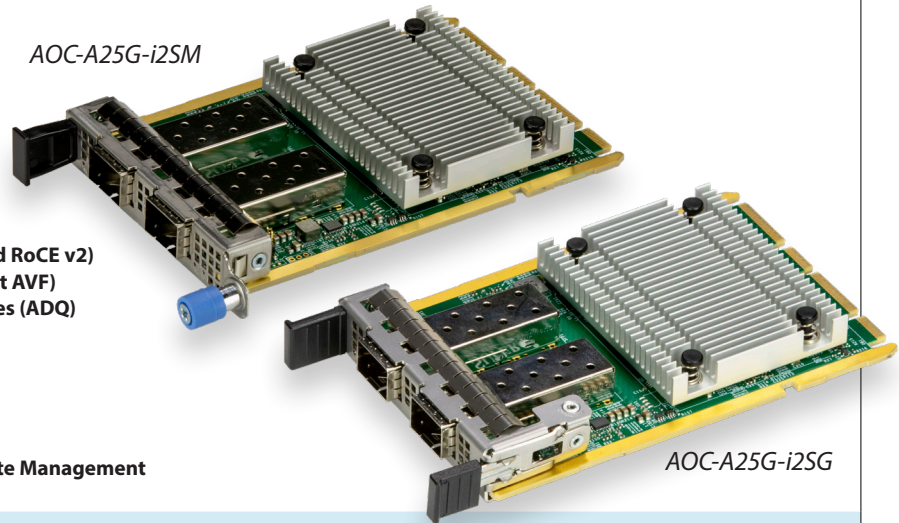
Supermicro Advanced I/O Module (AIOM) 2-port 25Gb Network Adapter

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-i2SM/G is one of the most feature rich and low power consumption 25GbE controllers in the market. Based on the Intel E810-XXVAM2 Ethernet controller with features such as VXLAN, NVGRE, RDMA, and others, it provides unparalleled density, performance, and functionality. The Supermicro® AOC-A25G-i2SM/G is the most versatile 25GbE controller in the market 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 E810-XXVAM2 25GbE controller
- Support for 25GbE and 10GbE Speed
- Dual SFP28 connectors
- PCIe Gen 4.0 x 8 (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)
- Data Plan Development Kit
- 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-i2SM



AOC-A25G-i2SG

Specifications

- **General**
 - Advanced I/O Module (AIOM) Form Factor
 - Intel E810-XXVAM2 25GbE controller
 - Dual SFP28 port
 - 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
 - Data Center Bridging
- **Management and Control**
 - Network Controller Sideband Interface (NC-SI)
 - BMC
 - PLDM and PLDM based firmware update
- **Remote Boot**
 - Signed UEFI option ROM compatible with HTTPS boot
 - Remote boot over iSCSI
 - PXE boot/ UEFI PXE Boot
- **Virtualization Features**
 - VXLAN
 - NVGRE
 - Geneve
 - SR-IOV
 - 768 Virtual Station Interface (VSI)
 - 8 Physical Functions (PF)
 - Microsoft VM Queue
 - VMWare NetQueue
 - DPDK Support
 - QoS: Priority-based Flow Control (802.1Qbb)
 - Enhanced Transmission Selection (802.1Qaz)
- **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: 12.5W
- **Operating Conditions:**
 - Storage Temperature: -40 °C to 115 °C
- **Physical Dimensions:**
 - Card PCB dimensions: 76mm x 115mm (W x D)

Specifications

SKUs	Bracket Included	Description
AOC-A25G-i2SM	BKT-0166L	2-port 25 Gigabit Ethernet Adapter with a 0.5U height bracket.
AOC-A25G-i2SG	BKT-0209L	2-port 25 Gigabit Ethernet Adapter with a 0.5U height narrow bracket for Grand Twin Front IO systems.

April 2024

Please note that this product is sold only as part of an integrated solution with Supermicro server systems

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MKT-0023-04/2024- 3