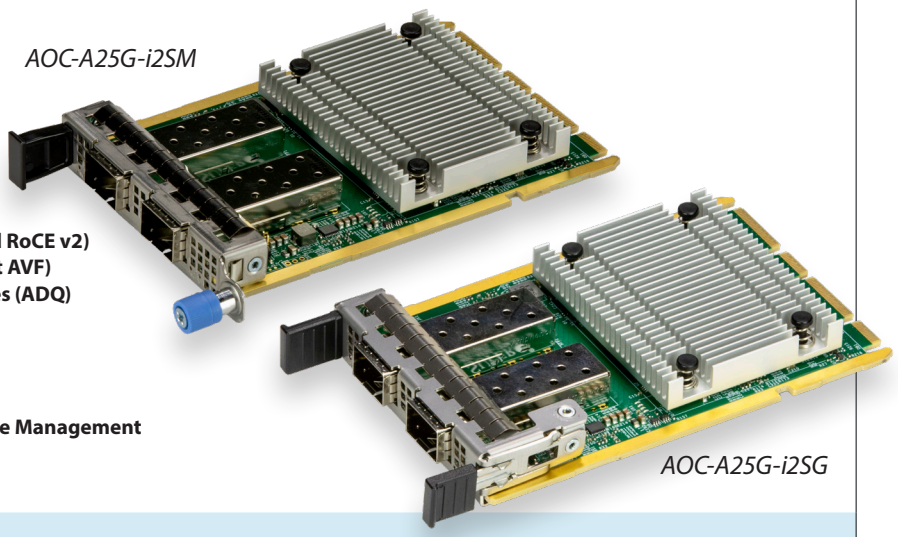
AOC-A25G-i2SM & AOC-A25G-i2SG

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 (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**



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
- **Precision Clocks Synchronization IEEE 802.3ae 10 Gigabit Ethernet**
  - IEEE 1588 (also knows 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)

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

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.

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