

# AOC-AG-i4M & AOC-AG-i4G



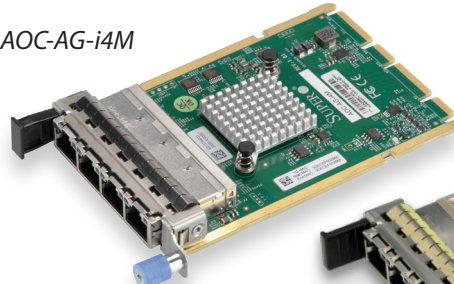
## Advanced I/O Module (AIOM) Gigabit Ethernet Adapters

The Supermicro® Advanced I/O Module (AIOM) is the latest form factor designed to provide a wide range of networking options as well as other I/O technologies. The GbE adapter AOC-AG-i4M/G is a flexible and scalable GbE solution providing 4 RJ45 ports. Based on the Intel® network controller i350 with performance-enhancing features and power management technologies, the AOC-AG-i4M/G provides a quality networking choice for data centers while reducing CPU utilization and power consumption. With the added NC-SI feature, this adapter can also function as a secure networking port for server remote management.

### Key Features

- **Advanced I/O Module (AIOM) Form Factor**
- **4x1Gbps ports: 4x RJ45 Connectors**
- **Intel® i350 GbE controller**
- **Energy Efficient Ethernet (EEE)**
- **Reliable and proven Gigabit Ethernet technology**
- **Asset Management Features with thermal sensor**
- **NC-SI for Remote Management**
- **RoHS compliant 6/6**

AOC-AG-i4M



AOC-AG-i4G



### Specifications

- **General**
  - Advanced I/O Module (AIOM) Form Factor
  - Intel® i350 GbE Controller
  - 4x1Gbps ports: 4x RJ45 Connectors
- **Networking Features**
  - IEEE 802.3 auto-negotiation for speed, duplex, and flow control
  - IEEE 802.3x and 802.3z compliant flow control support
  - Automatic cross-over detection function (MDI/MDI-X)
  - 1Gb/s Ethernet IEEE 802.3, 802.3u, 802.3ab PHY specifications Compliant
- **Virtualization Features**
  - PC-SIG SR-IOV support
  - VM to VM Packet forwarding (Packet Loopback)
  - Flexible Port Partitioning
  - IEEE 802.1q VLAN support
  - IEEE 802.1q advanced packet filtering
  - Jumbo Frames support
- **Power Management and Efficiency**
  - Energy Efficient Ethernet (EEE)
  - DMA Coalescing reduces platform power consumption
  - PCI Express Active State Power Management (ASPM)
  - LAN disable function
  - Low Power Link Up – Link Speed Control
- **Performance Features**
  - TCP/UDP, IPv4 and IPv6 checksum offloads to improve CPU usage
  - Low Latency Interrupts
  - Tx TCP segmentation offload (IPv4, IPv6) increases throughput and lowers processor usage
  - Receive Side Scaling (RSS) for Windows environment, Scalable I/O for Linux environments
  - Intelligent interrupt generation
- **Management Features**
  - Preboot eXecution Environment (PXE) support
  - iSCSI Remote Boot Support
  - Asset Management support on Supermicro® platforms
  - NC-SI for remote management
- **OS Support**
  - Windows® Server
  - RedHat Linux
  - SUSE Linux
  - FreeBSD
  - UEFI
  - VMWare
- **Power Consumption (Max)**
  - AOC-AG-i4M/G: 4.4W
- **Operating Conditions**
  - Storage temperature: -40°C to 70°C (-40°F to 158°F)
  - Storage humidity: 90% non-condensing relative humidity at 35°C
- **Physical Dimensions**
  - 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

Product Part Number	Bracket Included	Description
AOC- AG-i4M	BKT-0178L	4-port Gigabit Ethernet Adapter with a 0.5U height bracket
AOC-AG-i4G	BKT-0225L	4-port Gigabit Ethernet Adapter with a 0.5U height bracket for Grand Twin Front IO systems.