AOC-AG-i4 & AOC-AG-i4M

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-i4(M) 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-i4(M) 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
- 4 Gbps 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

Specifications

- General
  - Advanced I/O Module (AIOM) Form Factor
  - Intel® i350 GbE Controller
  - 4 Gbps 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)
  - 1Gbps 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-i4(M): 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)

Available SKUs

<table>
<thead>
<tr>
<th>Product Part Number</th>
<th>Bracket Included</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-AG-i4</td>
<td>BKT-0177L</td>
<td>4-port Gigabit Ethernet Adapter with an 1U height bracket</td>
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<tr>
<td>AOC-AG-i4M</td>
<td>BKT-0178L</td>
<td>4-port Gigabit Ethernet Adapter with a 0.5U height bracket</td>
</tr>
</tbody>
</table>

For the most current product information, visit:

www.supermicro.com

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