Advanced I/O Module (AIOM) 10GbE Ethernet Adapter

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 10GbE adapter AOC-ATG-i4S(M) is a flexible and scalable 10GbE solution providing 4 SFP+ ports. Based on the Intel® XL710-BM1 network controller with performance-enhancing features and power management technologies, the AOC-ATG-i4S(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 10GbE ports with SFP+ connectors
- Intel® XL710-BM1 Ethernet Controller
- Network Virtualization: VXLAN and NVGRE
- Intel® Ethernet Flow Director
- Data Plane Developer Kit for efficient packet processing (DPDK)
- Asset Management Features
- NC-SI for Remote Management
- Supports both Direct Attach Copper and Fiber Cables
- RoHS compliant 6/6

Specifications

- **General**
  - Advanced I/O Module (AIOM) Form Factor
  - Intel® XL710-BM1 controller
  - 4x SFP+ connectors with speed up to 10Gbps per port

- **Networking Features**
  - IEEE 802.3ad, 802.1AX Link Aggregation
  - IEEE 802.1Q VLAN
  - MSI and MSI-X support
  - Intel® Flow Director
  - Jumbo Frames (up to 9.5KB)
  - IEEE 802.3x Flow Control
  - Teaming support
  - Checksum Offload (IPv4/IPv6, SCTP, TCP, UDP, Tx/Rx)

- **Virtualization Features**
  - Virtual Machine Devices queues (VMDq)
  - Single-Root I/O Virtualization (SR-IOV)
  - VLAN
  - VXLAN and NVGRE
  - GENEVE

- **Management Features**
  - Asset Management support with thermal sensor
  - NC-SI for remote management
  - PXE remote boot
  - iSCSI remote boot

- **Power Savings**
  - ACPI compliant power management
  - PCI Express Active State Power Management (ASPM)
  - Energy Efficient Ethernet (IEEE 802.3az)

- **OS Support**
  - Windows® Server
  - Linux RHEL
  - Linux SLES
  - Linux Ubuntu
  - Linux CentOS
  - FreeBSD
  - VMware

- **Cable Support**
  - SFP+ direct attach twin-axial copper cables up to 5m
  - Fiber-optic cables (with required optional SFP+ transceivers)

- **Power Consumption (Max)**
  - AOC-ATG-i4S: 7W

- **Operating Conditions**
  - Storage condition: -40°C to 70°C (-40°F to 158°F)
  - Storage humidity: 90% non-condensing relative humidity at 33°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-ATG-i4S</td>
<td>BKT-0158L</td>
<td>4-port 10 Gigabit Ethernet Adapter with a 1U height bracket</td>
</tr>
<tr>
<td>AOC-ATG-i4SM</td>
<td>BKT-0159L</td>
<td>4-port 10 Gigabit Ethernet Adapter with a 0.5U height bracket</td>
</tr>
<tr>
<td>AOC-ATG-i4SG</td>
<td>BKT-0206L</td>
<td>4-port 10 Gigabit Ethernet Adapter with a 0.5U height Narrow bracket for Grand Twin Front IO systems.</td>
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</tbody>
</table>

August 2022

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

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