Advanced 10Gb Ethernet controller in Supermicro Advanced I/O Module (Aiom)

Supermicro® Advanced I/O Modules (Aiom) is the latest form factor designed to provide a wide range of networking options and other I/O technologies. The AOC-ATGC-i2TM is one of the most flexible and scalable 2-port 10Gb network solutions in the market. Based on the Intel® X710-AT2 network controller with performance-enhancing features and power management technologies, the AOC-ATGC-i2TM provides a quality networking choice for data centers while reducing CPU utilization and power consumption. With the added NC-SI feature, this adapter also can function as a secure networking port for remote server management.

**Key Features**

- Advanced I/O Module (Aiom) Form Factor
- Intel® X710-AT2 Ethernet Controller
- 2x 10GBase-T ports with RJ45 connectors
- Network Virtualization: VXLAN and NVGRE
- Energy Efficient Ethernet (EEE)
- Intel® Ethernet Flow Director
- Data Plane Developer Kit for efficient packet processing (DPDK)
- Asset Management Features
- NC-SI for Remote Management
- Supports RJ-45 Category 6 and 6A cables
- RoHS compliant 6/6

**Specifications**

- **General**
  - Advanced I/O Module (Aiom) Form Factor
  - Intel® X710-AT2 controller
  - 2x RJ45 connectors with speed up to 10Gbps per port
  - PCIe Gen3 X8
- **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
  - Preboot eXecution Environment (PXE)
  - iSCSI remote boot
  - PLDM
- **Power Savings**
  - ACPI compliant power management
  - Energy Efficient Ethernet (IEEE 802.3az)
- **OS Support**
  - Windows®
  - Linux RHEL
  - Linux SLES
  - Linux Ubuntu
  - Linux CentOS
  - FreeBSD
  - VMware
- **Power Consumption**
  - Maximum: 9.5W
- **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>SKUs</th>
<th>Bracket Included</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-ATGC-i2TM</td>
<td>BKT-018SL</td>
<td>2-port 10Gigabit Ethernet Adapter with a 0.5U height bracket.</td>
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</tbody>
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Please note that this product is sold only as part of an integrated solution with Supermicro server systems

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