The Ultimate Ethernet Adapter in Supermicro Advanced I/O Module (AIOM)
The Supermicro® Advanced I/O Module (AIOM) is the latest form factor designed to provide a wide range of networking options and other I/O technologies for server, storage and IoT systems. The AOC-AG-i8 is a highly flexible and scalable controller with 8 Gigabit Ethernet ports. Based on the Intel GbE network controller i350, the AOC-AG-i8 is designed with performance enhancing features and advanced power management technologies for the latest high performance data center and edge solutions.

Key Features:
• Advanced I/O Module (AIOM) Form Factor
• Intel® i350 GbE controller
• 8 RJ45 Connectors
• Energy Efficient Ethernet (EEE)
• Reliable and proven Gigabit Ethernet technology
• Asset Management Features
• NC-SI for Remote Management
• RoHS compliant 6/6

Specifications

• General:
  – Advanced I/O Module (AIOM) Form Factor
  – Intel® i350 GbE controller
  – 8 RJ45 ports

• Ethernet 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
  – IEEE 1588 protocol and 802.1AS implementation

• Power Management and Efficiency:
  – Energy Efficient Ethernet (EEE)
  – DMA Coalescing reduces platform power consumption
  – Active State Power Management (ASPM) support
  – LAN disable function
  – Low Power Link Up – Link Speed Control

• 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

• 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
  – RedHat Linux
  – SUSE Linux
  – FreeBSD
  – UEFI
  – VMware

• Cable Support:
  – RJ45 Category 5/5e up to 100m

• Power Consumption:
  – Typical 7.4W; Maximum 8.8W

• 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:
  – Card PCB dimensions: 76mm (2.992in) x 115mm (4.528in) (W x D)

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

Available SKUs

<table>
<thead>
<tr>
<th>Product Part Number</th>
<th>Bracket Included</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-AG-i8</td>
<td>BKT-0155L</td>
<td>8-port Gigabit Ethernet Adapter with an 1U height bracket.</td>
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For the most current product information, visit: www.supermicro.com