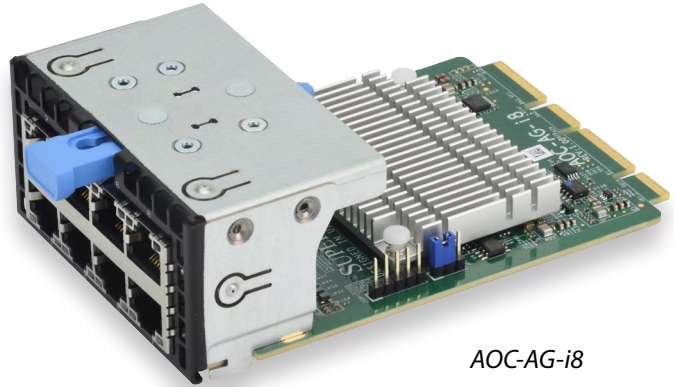# AOC-AG-i8

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**

AOC-AG-i8

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

Product Part Number	Bracket Included	Description
AOC-AG-i8	BKT-0155L	8-port Gigabit Ethernet Adapter with an 1U height bracket.

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For the most current product information, visit:

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