

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.