

# AOC-MGP-i2 & AOC-MGP-i4

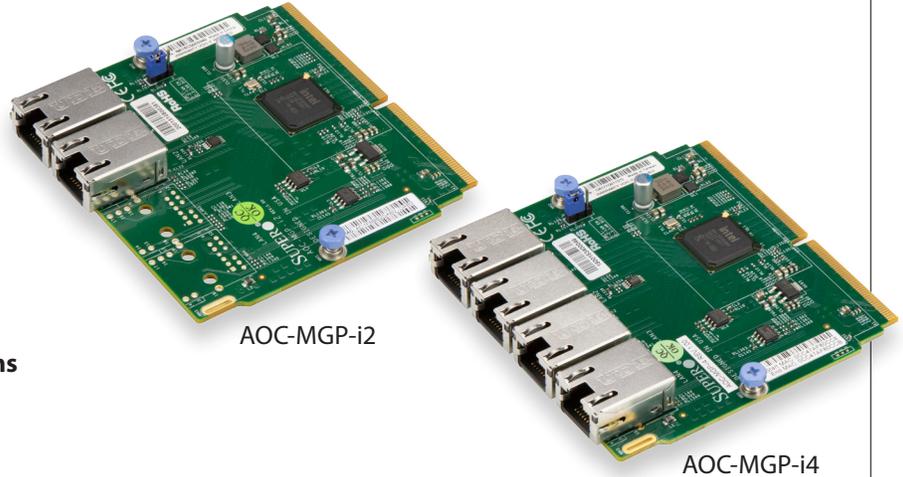


## The Ultimate Ethernet Controllers in Supermicro Super I/O Module

Supermicro® Super I/O Modules provide flexible I/O networking options and the AOC-MGP-i2 and AOC-MGP-i4 are the most flexible and scalable GbE SIOM controllers with Dual and Quad-port options. Based on Intel GbE network controller i350, they are designed with performance enhancing features and power management technologies.

### Key Features

- Super I/O Module (SIOM) Form Factor
- Intel® i350 GbE controller
- Dual and Quad RJ45 Connectors
- VMDq and SR-IOV for Virtualized Environments
- Jumbo Frames support
- Energy Efficient Ethernet (EEE)
- iSCSI Remote Boot Support
- PXE Boot Support
- Support for most Network Operating Systems
- Asset Management Features
- NC-SI for Remote Management
- RoHS compliant 6/6



AOC-MGP-i2

AOC-MGP-i4

### Specifications

#### • General:

- Intel® i350 GbE controller
- Super I/O Module (SIOM) Form Factor
- Dual RJ45 ports (AOC-MGP-i2)
- Quad RJ45 ports (AOC-MGP-i4)
- Intel® I/O Acceleration Technology (Intel® I/OAT)

#### • 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
- MAC Power Management controls
- 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
- Controller asset tags such as part number, revision, serial number, and MAC addresses
- Controller thermal sensor
- NC-SI for remote management

#### • OS Support

- Windows Server 2012 R2, 2012, 2008 R2 (x64 Edition)
- Windows 8.1, 8, 7 (x64 Edition)
- RedHat Linux
- SUSE Linux
- FreeBSD
- UEFI
- VMWare

#### • Cable Support

- RJ45 Category 5/5e up to 100m

#### • Power Consumption

- AOC-MGP-i2: Typical 3W, Maximum 3.7W
- AOC-MGP-i4: Typical 3.7W, Maximum 4.4W

#### • Operating Conditions

- Operating temperature: 0°C to 55°C (32°F to 131°F)
- 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: 92mm (3.62in) x 87.1mm (3.43in) (W x D)

#### • Compliance/Environmental

- RoHS Compliant 6/6, Pb Free

#### • Supported Platforms

- Supermicro® motherboards with Super I/O Module slot
- Supermicro® server systems with Super I/O Module slot

Please note that this product is only available to OEM customer and is sold as integrated solution with Supermicro server systems