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

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 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

For the most current product information, visit:

www.supermicro.com

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