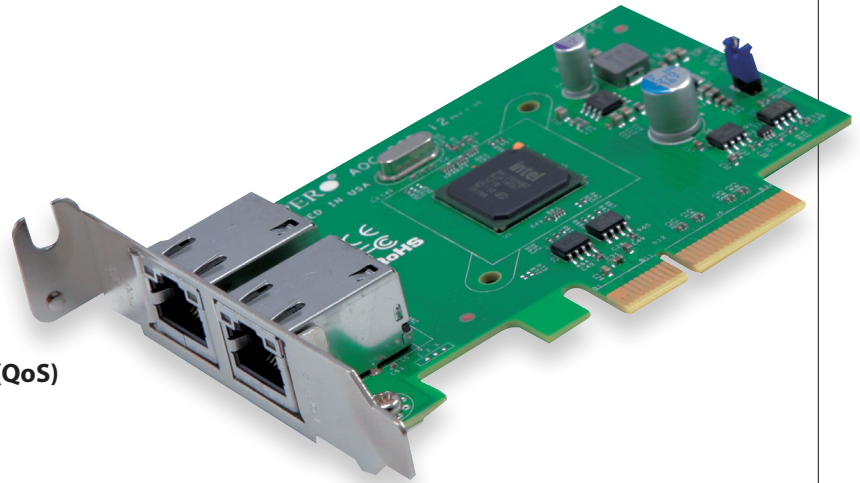


### The Most Compact and Cost Effective 2-port Ethernet Controller in the Market

With the AOC-SGP-i2, Supermicro has extended the boundaries of Ethernet technology to create the most compact, cost effective, and feature-packed 2-port Ethernet controller in the market, allowing it to fit easily into the tightest high-density server add-on card locations. With ultra-small footprint and rich power management technology feature set, the AOC-SGP-i2 represents the next step in the Gigabit Ethernet networking evolution for enterprise and data center environments.

#### Key Features

- Low-Profile Standard Form Factor
- PCI Express 2.1 (2.5GT/s or 5GT/s)
- 2 RJ-45 ports
- Intel® I/O Acceleration Technology (I/O AT)
- VMDq, Next-Generation VMDq, and PC-SIG SR-IOV for Virtualized Environments
- Jumbo Frame Support up to 9.5KB
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Low Power Consumption (4W Typical)
- iSCSI Remote Boot Support
- Flexible I/O Virtualization and Quality of Service (QoS)
- PXE Boot Support
- RoHS compliant 6/6



#### Specifications

- **General:**
  - Intel® i350 GbE controller
  - Compact size low-profile standard form factor
  - PCI-E 2.1 x4 (2.5GT/s or 5GT/s) interface
  - Dual RJ-45 connectors
  - Intel® PROSet Utility for Windows® Device Manager
  - Intel® I/O Acceleration Technology (I/O AT)
- **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**
  - IEEE 802.3az Energy Efficient Ethernet (EEE) which reduces power consumption of the PHY by about 50%
  - 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
  - Power consumption: 4W
- **Virtualization Features**
  - VM to VM Packet forwarding (Packet Loopback)
  - Eight TX and RX queue pairs per port to support VMWare NetQueue and Microsoft VMQ
  - Flexible Port Partitioning: 32 Virtual Functions
  - PC-SIG SR-IOV implementation
  - IEEE 802.1q VLAN support
  - IEEE 802.1q advanced packet filtering
- **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
  - Jumbo Frames support up to 9.5K Bytes
  - Intelligent interrupt generation
- **Remote Boot Options**
  - Preboot eXecution Environment (PXE) support
  - iSCSI remote boot for Windows, Linux, and VMware
- **OS Support**
  - Windows® XP SP3, Vista SP2, 7 SP1 2003 SP2, 2008 SP2, 2008 R2S
  - RedHat EL 5.5, 6.0; SuSe SLES 10 SP3, 11 SP1
  - FreeBSD 8.0
  - VMware ESX 4.0, 4.1, 5.0
  - Xen
- **Cables Support**
  - RJ-45 Category-5/5e up to 100m
- **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)
- **Physical Dimensions**
  - Card PCB dimensions: 9.91cm (3.90in) x 6.90cm (2.73in) (L x H)
  - Height of end brackets:
    - standard 12cm (4.725in),
    - low-profile 7.94cm (3.13in)

#### Compliance/Environmental

- RoHS Compliant 6/6, Pb Free



#### Supported Platforms

- Supermicro motherboards with minimum PCI-E x4 slot
- Supermicro server systems with low-profile or full-height PCI-E x4 expansion slot

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

For the most current product information, visit:

[www.supermicro.com](http://www.supermicro.com)