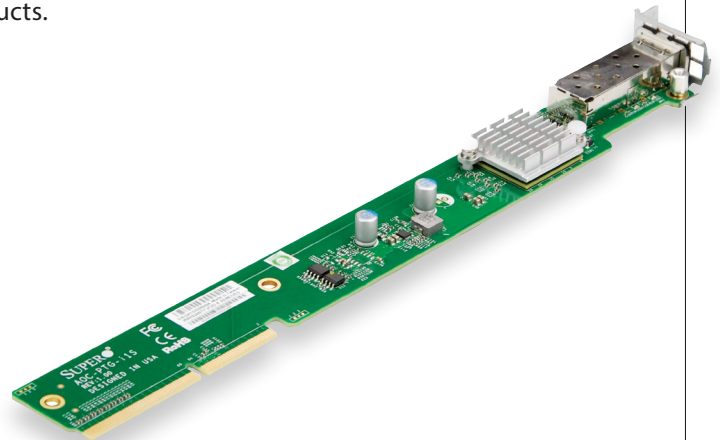


## 10 Gigabit Ethernet Adapter for High Density Systems

The Supermicro AOC-PTG-i1S is the most flexible and scalable 10 Gigabit Ethernet Adapter optimized for today's demanding data center environments. Incorporating the Intel® 10GbE network controller 82599EN, the AOC-PTG-i1S addresses the demanding needs of next-generation data centers by providing features for virtualization and flexibility for LAN and SAN networking with proven reliability and maximum performance. The AOC-PTG-i1S is designed for the industry's most powerful and high density Supermicro TwinPro SuperServer® family of products.

### Key Features

- **Single SFP+ Connector**
- **Proprietary 1U Form Factor**
- **PCI Express 2.0 (up to 5GT/s)**
- **Intel® QuickData Technology**
- **VMDq, Next-Generation VMDq, and PC-SIG SR-IOV for Virtualized Environments**
- **Load Balancing on Multiple CPUs**
- **iSCSI Remote Boot Support**
- **Fibre Channel over Ethernet (FCoE) Support**
- **Support for most Network Operating Systems (NOSs)**
- **Support both DAC Twin Axial and LC Fiber-Optic Cables**
- **RoHS compliant 6/6**



### Specifications

#### • General

- Intel® 82599EN 10GbE controller
- Proprietary 1U form factor
- Single SFP+ port
- PCI-E 2.0 x8 (5GT/s)
- Load balancing on multiple CPUs
- iSCSI remote boot support
- Fibre Channel over Ethernet (FCoE) Support
- Intel® PROSet Utility for Windows® Device Manager

#### • I/O Features:

- Intel QuickData Technology: DMA engine that enhances data acceleration and lowers CPU usage
- Direct Cache Access (DCA) to avoid cache misses
- MSI-X support to minimize the overhead of interrupts allowing load-balancing between multiple cores/CPU's
- Tx/Rx IP, SCTP, TCP and UDP checksum offloading capabilities (IPv4, IPv6)
- Receive and Transmit Side Scaling for Windows environments and Scalable I/O for Linux environments

#### • Virtualization Features

- Supports virtualization features such as VMDq, next-generation VMDq (64 queues per port) and PC-SIG SR-IOV implementation
- IPv6 Offloading
- Advanced Packet Filtering
- VLAN support to allow creation of multiple VLAN segments

#### Manageability Features:

- Preboot eXecution Environment (PXE) support
- Simple Network Management Protocol (SNMP) and Remote Network Monitoring (RMON) statistics counters
- iSCSI remote boot

#### OS Support:

- Windows® Server 2012 (x64 edition)
- Windows® 8 (x64 edition and 32-bit)
- Windows® Server 2008 R2 (x64 edition and 64-bit)
- Windows® Server 2008 (x64 edition, 64-bit, and 32-bit)
- Windows® 7 (x64 edition and 32-bit)
- Windows® Vista (x64 edition and 32-bit)
- Windows® Server 2003 (x64 edition, 64-bit, and 32-bit)
- VMWare
- RedHat EL, SuSe SLES
- FreeBSD

#### Cables Support:

- SFP+ direct attached twin axial cables, up to 7 meters
- LC-LC fiber-optic cables (optional SFP+ transceiver is required)

#### Operating Conditions:

- Operating temperature: 0°C to 55°C

#### Physical Dimensions:

- Card PCB dimensions (without end brackets): 10.04" (25.5cm) x 0.78" (2.0cm) (LxW)

#### Optional Accessories

- AOC-E10GSFSPSR: SFP+ transceiver module for short range fiber cables (up to 300m)
- AOC-E10GSFPLR: SFP+ transceiver module for long range fiber cables (up to 3000m)
- AOC-TSR-FS: SFP+ transceiver module for short range fiber cables (up to 300m)
- AOC-GBIC-FSR2: SFP+ transceiver module for short range fiber cables (up to 300m), single speed (10Gb)
- CBL-0347L: 39.37" (100cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0456L: 78.74" (200cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0348L: 118.11" (300cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0349L: 196.85" (500cm) 10GbE SFP+ to SFP+, Twinax copper cable

### Compliance/Environmental

- RoHS Compliant 6/6, Pb Free



### Supported Platforms

- Supermicro TwinPro<sup>2</sup> only

Please note that this product is only available as an integrated solution with Supermicro server systems

For the most current product information, visit:

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