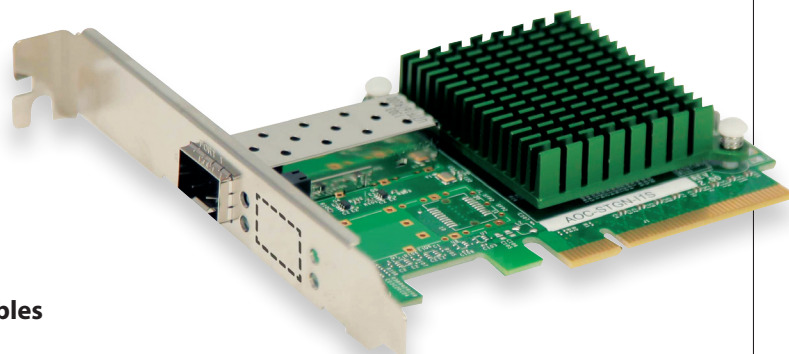


Compact and Powerful 10 Gigabit Ethernet Adapter

The AOC-STGN-i1S 10 Gigabit Ethernet Adapter is the most flexible and scalable Ethernet adapter for today's demanding data center environments. Based on the Intel® 10GbE network controller 82599EN, the AOC-STGN-i1S addresses the demanding needs of the next-generation data center by providing features for virtualization, flexibility for LAN and SAN networking, and proven reliable performance.

Key Features

- **Single SFP+ Connector**
- **MicroLP 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 SR Cables**
- **RoHS compliant 6/6**

**Specifications****General**

- Intel® 82599EN 10GbE controller
- Standard low-profile 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

Compliance/Environmental

- RoHS Compliant 6/6, Pb Free

**Supported Platforms**

- Supermicro motherboards with PCI-E x8 slot
- Supermicro servers with full-height or low-profile PCI-E x8 expansion slot

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

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 10 meters
- Dual 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): 10.16cm (4.00in) x 6.70cm (2.73in) (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)
- CBL-0347L: 1m Twinax copper cable
- CBL-0348L: 3m Twinax copper cable
- CBL-0349L: 5m Twinax copper cable