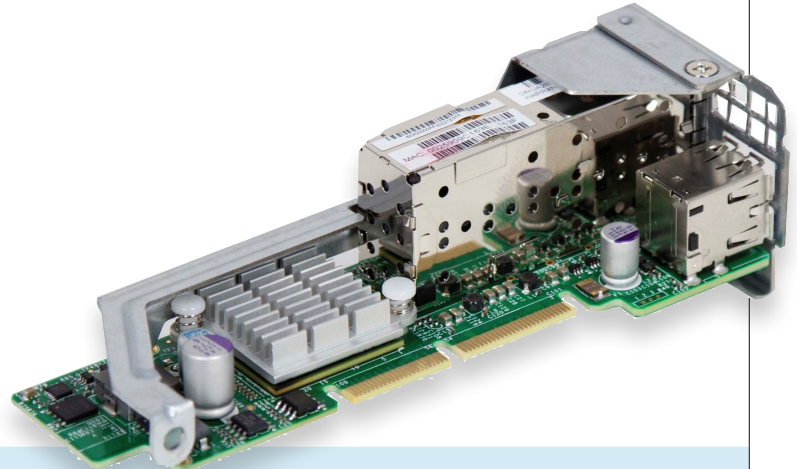


Compact and Powerful Dual-port 10 Gigabit Ethernet Adapter

The AOC-CTG-i2S 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 82599ES, the AOC-CTG-i2S 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. The AOC-CTG-i2S is designed in a small microLP form factor to fit Supermicro MicroCloud and Twin server systems.

Key Features

- Dual SFP+ Connectors
- 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)
- Supports both DAC Twin Axial and LC Fiber-Optic Cables
- RoHS compliant 6/6

**Specifications****General:**

- Intel[®] 82599ES 10GbE controller
- Compact size microLP form factor
- Dual SFP+ and dual USB 2.0 ports
- PCI-E x8 2.0 (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[®] 7, 8, Server 2003, Server 2008, Server 2008 R2, Server 2012, Vista
- RedHat EL, SuSe SLES
- FreeBSD
- VMWare

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):
- 12.32cm (4.85in) x 3.90cm (1.54in) (LxW)

Power Consumption:

- About 8W (typical)

Optional Accessories

- AOC-E10GSFPSR: 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 Twin Server and MicroCloud Systems with microLP expansion slot (See MicroLP Compatibility Matrix online) http://www.supermicro.com/support/resources/aoc/microLP_compatibility.cfm

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