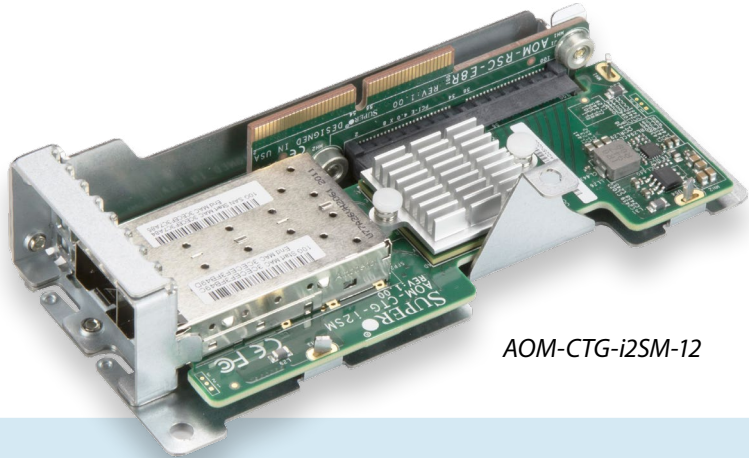


Compact and Powerful dual-port 10 Gigabit Ethernet Adapter

The AOM-CTG-i2SM-12 10 Gigabit Ethernet Adapter is the most compact and scalable 10G Ethernet adapter for today's demanding data center environments. Based on the Intel® 10GbE network controller 82599ES, it 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. With NC-SI built-in, this adapter provides connection for both data and remote management which simplifies cabling needs in a data center. The AOM-CTG-i2SM-12 is designed in a proprietary and small MicroLP form factor to fit Supermicro MicroCloud 12-node systems.

Key Features

- Dual 10GbE SFP+ Connectors
- MicroLP Form Factor
- Intel® QuickData Technology
- VMDq and PC-SIG SR-IOV
- Supports both Direct Attach Copper and Fiber Cables
- RoHS compliant 6/6
- NC-SI for remote management



AOM-CTG-i2SM-12

Specifications

- **General**
 - Intel® 82599ES 10GbE controller
 - MicroLP Form Factor
 - Dual SFP+ ports
 - Load balancing on multiple CPUs
 - iSCSI remote boot support
 - Intel® PROSet Utility for Windows® Device Manager
- **I/O Features**
 - 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**
 - VMDq, Next-Generation VMDq (64 queues per port)
 - PC-SIG SR-IOV implementation (64 virtual functions per port)
 - Advanced Packet Filtering
 - VLAN support to allow creation of multiple VLAN segments
 - VXLAN through Software
- **Management Features**
 - Preboot eXecution Environment (PXE) support
 - Simple Network Management Protocol (SNMP) and Remote Network Monitoring (RMON) statistics counters
 - iSCSI remote boot
 - NC-SI for remote management
 - Asset Management support on Supermicro® platforms
 - Controller asset tags such as part number, revision, serial number, and MAC addresses
- **Advanced Software Features**
 - Teaming support
 - IEEE 802.3ad (link aggregation control protocol)
 - IEEE 802.1Q VLANs
 - IEEE 802.3 2005 flow control support
- **OS Support**
 - Windows Server
 - Windows
 - RedHat Linux
 - SUSE Linux
 - FreeBSD
 - UEFI
 - VMware
- **Cables Support**
 - FP+ Direct Attach Copper cables
 - Fiber-optic cables (with required optional SFP+ transceivers)
- **Power Consumption**
 - Maximum power consumption: 7W
- **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: 113mm (4.45in) x 49mm (1.93in)
- **Supported Platforms**
 - 5039MC-H12TRF (X11SCE-F)
 - 5039MS-H12TRF (X11SSE-F)

Parts List

Add-on Card	Part Number	Description
Add-on Card	AOM-CTG-i2SM	MicroLP 2-Port 10GbE SFP+ adapter
Riser Card	AOM-RSC-E8R	MicroLP Riser Card for MicroCloud 12 node
Bracket	MCP-240-93913-0N	MicroLP bracket for MicroCloud 12 node