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

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/CPUs
  - 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

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<tr>
<th>Add-on Card</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>Add-on Card</td>
<td>AOM-CTG-i2SM</td>
<td>MicroLP 2-Port 10GbE SFP+ adapter</td>
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<tr>
<td>Riser Card</td>
<td>AOM-RSC-E8R</td>
<td>MicroLP Riser Card for MicroCloud 12 node</td>
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<tr>
<td>Bracket</td>
<td>MCP-240-93913-0N</td>
<td>MicroLP bracket for MicroCloud 12 node</td>
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Please note that this product is sold only as part of an integrated solution with Supermicro server systems

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