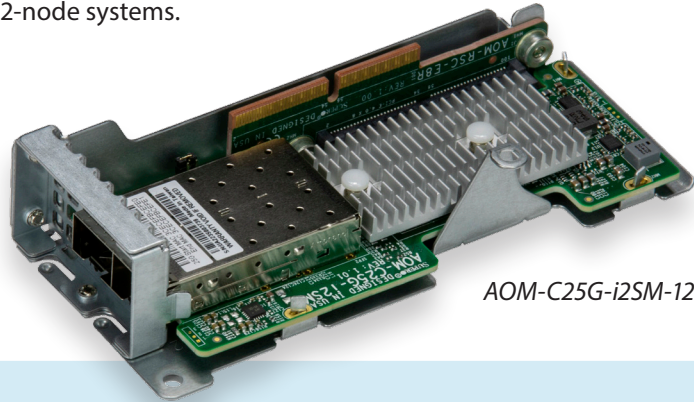# AOM-C25G-i2SM-12

Compact and Powerful dual-port 25 Gigabit Ethernet Adapter

The AOM-C25G-i2SM-12 25 Gigabit Ethernet Adapter is one of the most compact and scalable 25G Ethernet adapters for today's demanding data center environments. Based on the latest Intel® network controller E810-XXVAM2, it addresses the demanding needs of the next-generation data center. 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-C25G-i2SM-12 is designed in a proprietary and small MicroLP form factor to fit Supermicro MicroCloud 12-node systems.

Key Features

- **Dual 25GbE SFP28 Connectors**
- **MicroLP Form Factor**
- **PCI-E 4.0 x8, backward compatible to PCI-E 3.0 x8**
- **Intel E810-XXVAM2 Ethernet Controller**
- **NC-SI for remote management**
- **RoHS compliant 6/6**

AOM-C25G-i2SM-12

Specifications

- **General**
  - Intel E810-XXVAM2 Ethernet Controller
  - MicroLP Form Factor
  - Dual SFP28 ports
  - PCI-E 4.0
  - Application Device Queues (ADQ)
  - [Dynamic Device Personalization (DDP)
- **Host Interface**
  - PCI-E v4.0
  - Backward compatible with PCIe v3.0
  - Message Signal Interrupt (MSI-X)
- **Networking Features**
  - Jumbo Packet (9K Max)
  - Teaming
  - Virtual LANs 802.1q VLAN tagging
- **Stateless Offload Features**
  - TCP, UDP, IPv4, IPv6 checksum offload
  - Large Send Offload
  - Receive Segment Coalescing
  - TCP segmentation Offload (TSO)
  - UDP Segment Offload (USO)
  - Large Segment Offload (LSO)
  - Receive Side Scaling (RSS)
- **Virtualization Features**
  - VXLAN
  - NVGRE
  - Geneve
  - SR-IOV
  - 768 Virtual Station Interface (VSI)
  - 8 Physical Functions (PF)
  - Microsoft VM Queue
  - VMWare NetQueue
  - DPDK Support
  - QoS: Priority-based Flow Control (802.1Qbb)
  - Enhanced Transmission Selection (802.1Qaz)
- **Manageability**
  - Network Controller Sideband Interface (NC-SI)
  - Asset Management with Thermal Sensors

- **RDMA over Converged Ethernet (iWARP and RoCE)**
  - iWARP
  - RoCEv2
  - Data Center Bridging
- **Remote Boot**
  - UEFI PXE Boot
- **Data Center Bridging**
  - Enhanced transmission – IEEE 802.1Qaz
  - Priority based Flow Control – IEEE 802.1Qbbb
  - Edge Virtual Bridging - IEEE 802.Qbg
- **• Power Saving**
  - ACPI Compliant power management
  - Pass through Energy Efficient Ethernet (IEEE802.3az-2010)
- **Cables Support**
  - SFP28 Direct Attach Copper cables
  - Fiber-optic cables (with required optional SFP28 transceivers)
- **Power Consumption**
  - Maximum power consumption: 10.5W
- **Operating Conditions**
  - 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 (4.463in) x 49mm (1.929in)
- **Supported Platforms**
  - MicroCloud 12 node systems
  - SYS-530MT-H12TRF (X12STE-F)
  - SYS-5039MC-H12TRF (X11SCE-F)
  - SYS-5039MS-H12TRF (X11SSE-F)

Parts List

Add-on Card	Part Number	Description
Add-on Card	AOM-C25G-i2SM	MicroLP 2-Port 25GbE SFP28 adapter
Riser Card	AOM-RSC-E8R	MicroLP Riser Card for MicroCloud 12 node
Bracket	MCP-240-93913-0N	MicroLP bracket for MicroCloud 12 node

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