AOC-C25G-I2S

Compact and Powerful dual-port 25 Gigabit Ethernet Adapter

The AOC-C25G-I2S 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. The AOC-C25G-I2S is designed in a proprietary and small MicroLP form factor to fit Supermicro MicroCloud 8/10-node systems.

Key Features

- **Dual 25GbE SFP28 Connectors, backwards compatible 10GbE**
- **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**

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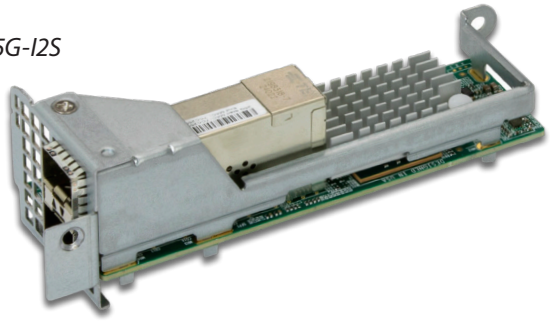

Specifications

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 (4.46in) x 39mm (1.54in)

Supported Platforms:
- MicroCloud 8/10 node systems

Please note that this product is sold only as part of an integrated solution with Supermicro server systems

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