The Supermicro AOC-S100GC-i2C is a high performance leading edge 100Gb/s Ethernet adapter featuring Intel E810-CAM2 with PCIe Gen 4 support with backward compatibility to PCIe Gen 3. It is also a feature rich adapter that provides support to RoCE, iWarp, DCDV, VXLAN, NVGRE and Geneve. The support of both RoCE and iWarp deliver a low latency and high efficiency over Ethernet network. The Supermicro AOC-S100GC-i2C adapter is an excellent solution for your cloud-scale networking, storage, machine learning, data analytics and HPC.

**Key Features:**
- Dual Port QSFP28 Connector
- Low-Profile, Short Length Standard Form Factor
- PCI-E 4.0 x16 backward compatible to PCI-E 3.0 x16
- Intel E810-CAM2 Ethernet Controller
- Asset Management Feature with thermal sensor
- Intel Ethernet Flow Director
  - Application Device Queues (ADQ)
- Data Plan Development Kit
- Low Latency RDMA over Converged Ethernet (iWARP and RoCE v2)
- VXLAN, NVGRE and Geneve
- Jumbo Packet (9K Max)
- NC-SI for IPMI support
- RoHS compliant 6/6
- Dynamic Device Personalization (DDP)
- Flexible Ethernet Port Configuration

**Specifications**

**General:**
- Intel E810-CAM2 Ethernet Controller
- Compact size low-profile standard form factor
- PCI-E 4.0
- Dual QSFP28 connectors

**Host Interface:**
- PCI-E v4.0 (16GT/s)
- Backward compatible with PCIe v3.0
- Message Signal Interrupt (MSI-X)

**Networking Features:**
- Jumbo Packet (9K Max)
- Teaming
- Virtual LANs 802.1q VLAN tagging
- Up to four 25Gb Connections or eight 10Gb connections

**Stateless Offload Features:**
- TCP, UDP, IPv4, IPv6 checksum offload
- Large Send Offload
- Receive Segment Coalescing
- TCP segmentation Offload
- Large Receive Offload
- 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)

**RDMA over Converged Ethernet (iWARP and RoCE):**
- iWARP
- RoCEv2
- Data Center Bridging

**Manageability:**
- Network Controller Sideband Interface (NC-SI)*
- Asset Management with Thermal Sensors

**Remote Boot:**
- iSCSI Boot
- Legacy PXE 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)

**Operating Conditions:**
- Storage temperature: -40°C to 70°C (-40°F to 158°F)
- Storage humidity: 90% non-condensing relative humidity at 35°C

*Require NC-SI cable and motherboard support

For the most current product information, visit:
[www.supermicro.com](http://www.supermicro.com)
## Optional Parts List

<table>
<thead>
<tr>
<th>Product Part Number</th>
<th>Description</th>
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</tbody>
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