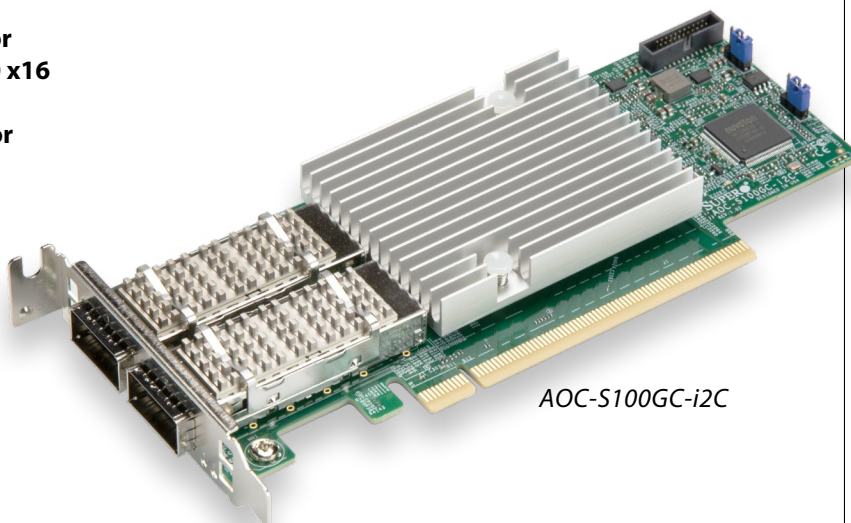


The Supermicro AOC-S100GC-i2C is a high performance leading edge 100Gb/s Ethernet adapter featuring Intel E810-CAM2 with PCIe Gen 4 support with backward compatibility to PCIe Gen 3. It is also a feature rich adapter that provides support to RoCE, iWarp, DCDB, VXLAN, NVGRE and Geneve. The support of 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*

Optional Parts List

	Product Part Number	Description
Copper Cable	CBL-NTWK-0942-MQ28C05M	Ethernet, QSFP28, 100GbE, Passive, 0.5M
	CBL-NTWK-0942-MQ28C10M	Ethernet, QSFP28, 100GbE, Passive, 1M
	CBL-NTWK-0942-MQ28C15M	Ethernet, QSFP28, 100GbE, Passive, 1.5M
	CBL-NTWK-0942-MQ28C20M	Ethernet, QSFP28, 100GbE, Passive, 2M
	CBL-NTWK-0942-MQ28C25M	Ethernet, QSFP28, 100GbE, Passive, 2.5M
	CBL-NTWK-0942-MQ28C30M	Ethernet, QSFP28, 100GbE, Passive, 3M
	CBL-NTWK-0943-SQ28C10M	Ethernet, QSFP28, 100GbE, Passive, 1M