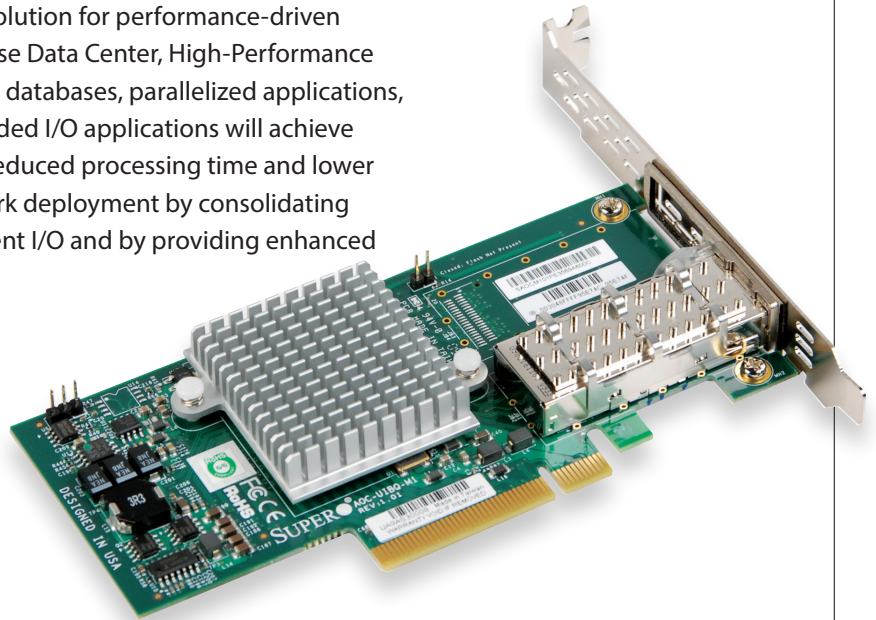


Single-port InfiniBand QDR UIO Adapter Card with PCI-E 2.0 and Virtual Protocol Interconnect™ (VPI)

AOC-UIBQ-m1 InfiniBand card with Virtual Protocol Interconnect (VPI) provides the highest performing and most flexible interconnect solution for performance-driven server and storage clustering applications in Enterprise Data Center, High-Performance Computing, and Embedded environments. Clustered databases, parallelized applications, transactional services and high-performance embedded I/O applications will achieve significant performance improvements resulting in reduced processing time and lower costs per operation. **AOC-UIBQ-m1** simplifies network deployment by consolidating clustering, communications, storage, and management I/O and by providing enhanced performance in virtualized server environments.

Key Features

- **Virtual Protocol Interconnect™ (VPI)**
- **1µs MPI ping latency**
- **Selectable 40Gb/s InfiniBand or 10GbE port**
- **PCI Express 2.0 (up to 5GT/s)**
- **CPU offload of transport operations**
- **End-to-end QoS and congestion control**
- **Hardware-based I/O virtualization**
- **TCP/UDP/IP stateless offload**
- **Fibre Channel encapsulation (FCoIB or FCoE)**



Specifications

- **InfiniBand:**
 - Mellanox® ConnectX®-2 IB QDR (MT25408B0-FCC-QIS)
 - Single InfiniBand QSFP port
 - 40Gb/s per port
 - RDMA, Send/Receive semantics
 - Hardware-based congestion control
 - Atomic operations
- **Interface:**
 - PCI Express 2.0 x8 (5GT/s)
 - UIO low-profile half-length form factor
- **Connectivity:**
 - Interoperable with InfiniBand or 10GbE switches
 - QSFP connector
 - 7m (40Gb/s) maximum copper cable length
 - External optical media adapter and active cable support
- **Hardware-based I/O Virtualization:**
 - Single Root I/O
 - Address translation and protection
 - Multiple queues per virtual machine
 - VMware NetQueue support
 - PCISIG IOV compliant
- **CPU Offloads:**
 - TCP/UDP/IP stateless offload
 - Intelligent interrupt coalescence
 - Microsoft RSS and NetDMA compliant
- **Storage Support**
 - T10-compliant Data Integrity Field support
 - Fibre Channel over InfiniBand or Ethernet (FCoIB or FCoE)
- **Operating Systems/Distributions:**
 - Novell SLES, RedHat, Fedora and others
 - Microsoft® Windows Server 2003/2008/CCS 2003
 - OpenFabrics Enterprise Distribution (OFED)
 - OpenFabrics Windows Distribution (WinOF)
 - VMware ESX Server 3.5, Citrix XenServer 4.1
- **Operating Conditions:**
 - Operating temperature: 0°C to 55°C
- **Physical Dimensions:**
 - Card PCB dimensions: 14.29cm (5.63") x 6.35cm (2.50") (LxW)
 - Height of end brackets: standard – 12cm (4.725in), low-profile – 7.94cm (3.13in)
- **Optional Accessories:**
 - CBL-0417L: 39.37" (100cm) QSFP to QSFP InfiniBand QDR PBF
 - CBL-0325L: 78.74" (200cm) QSFP to QSFP InfiniBand QDR
 - CBL-0446L: 118.11" (300cm) QSFP to QSFP InfiniBand QDR
 - CBL-0422L: 196.85" (500cm) QSFP to QSFP InfiniBand QDR
 - CBL-0467L: 7M QSFP to QSFP InfiniBand QDR Passive Copper Cable
 - CBL-0468L: 15M QSFP to QSFP InfiniBand QDR Fiber Active Optical Cable

Compliance/Environmental

- RoHS Compliant 6/6, Pb Free

Supported Platforms

- Supported Motherboards: All Supermicro UIO Motherboards
- Supported Servers: All Supermicro UIO Servers