AOC-UINF-m2

SUPERMICRO

Dual-Port, Low-Latency InfiniBand UIO Adapter Cards with PCI Express 2.0

AOC-UINF-m2 InfiniBand card delivers low latency and high bandwidth for performance-driven server and storage clustering applications in Enterprise Data Centers, 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 completion time and lower cost per operation. AOC-UINF-m2 simplifies network deployment by consolidating clustering, communications, storage and management I/O and by providing enhanced performance in virtualized server environments.

Key Features

- **1.2us MPI ping latency**
- **Dual 20Gb/s InfiniBand ports**
- **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**
- **Full support for Intel® I/OAT**
- **Supports both AMD and Intel® platforms**

Specifications

- **InfiniBand:**
  - Mellanox ConnectX IB DDR MT25408A0-FCC-GI
  - Dual 4X InfiniBand ports
  - 20Gb/s per port
  - RDMA, Send/Receive semantics
  - Hardware-based congestion control
  - Atomic operations
- **Interface:**
  - PCI Express 2.0 x8 (1.1 compatible)
  - UIO form factor
- **Connectivity:**
  - Interoperable with InfiniBand switches
  - 10m+ (20Gb/s) of copper cable
  - External optical media adapter and active cable support
- **Hardware-based I/O Virtualization:**
  - Address translation and protection
  - Multiple queues per virtual machine
  - Native OS performance
  - Complementary to Intel® and AMD I/OMMU
- **CPU Offloads:**
  - TCP/UDP/IP stateless offload
  - Intelligent interrupt coalescence
  - Full support for Intel® I/OAT
  - Microsoft RSS and NetDMA Compliant
- **Operating Systems/Distributions:**
  - Novell, RedHat, Fedora and others
  - Microsoft Windows Server
- **Operating Conditions:**
  - Operating temperature: 0 to 55C
  - Requires 3.3V, 12V power supplies

Compliance/Environmental

- RoHS Compliant 6/6, Pb Free

Supported Platforms

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

For the most current product information, visit:

www.supermicro.com