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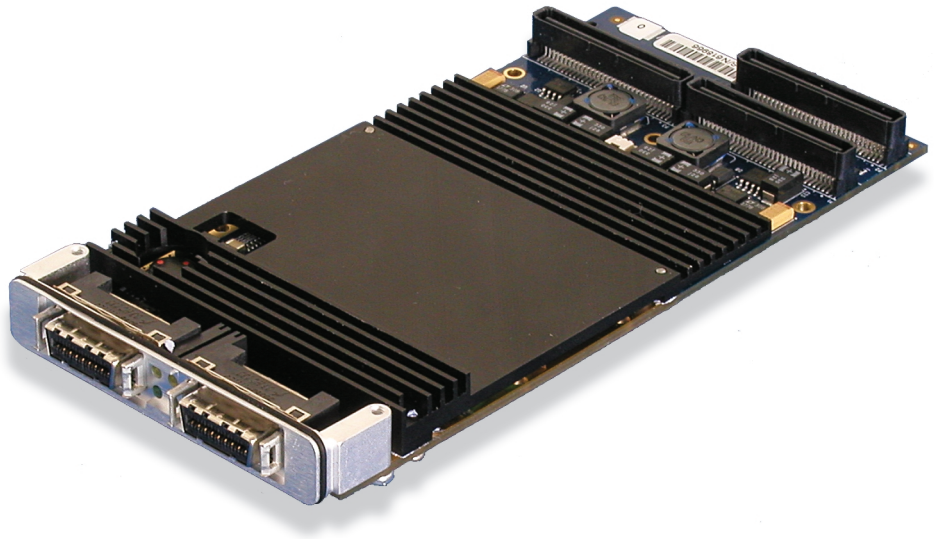
IB4X-PMC-2 HCA

InfiniBand™ 4x dual-Port PMC host channel adapter

I/O & Communications

Features

- Second generation 10 Gb/s InfiniBand 4x HCA PMC
- HCA core capable of full wire speed transmissions over InfiniBand links
- Native InfiniBand layer 4 hardware acceleration
- Dual 10 Gb/s InfiniBand 4x ports
- IBTA v1.1 compatible design
- Supports up to 16 million queue pairs
- InfiniRISC™ embedded RISC processor
- Large on-chip InfiniBand port buffers
- Low latency transport
- 128 MB DDR memory
- Support for 8 data VLs plus the VL15 management lane
- Sophisticated quality of service (QoS) features
- Multicast, atomic and large message support
- Hardware support for UC, UD, RC, and RAW mechanisms
- Drivers for Linux, Yellow Dog Linux, and VxWorks available
- MPI, Mirror API, IP/IB, SDP & UDAPL support
- Compatible with open source InfiniBand software found at www.openib.com



SBS' dual-port 10 Gb/s PMC InfiniBand Host Channel Adapter (HCA) is engineered to drive the full performance of high-speed InfiniBand fabrics. Designed to provide the high throughput and low CPU utilization required for 10 Gb/s embedded data transport applications and high performance computing clustering (HPCC), the HCA is configured with 128 MBytes of DDR memory.

The InfiniBand architecture defines and supports many applications, most with remote direct memory access (RDMA) capabilities. RDMA combined with the inherent characteristics of InfiniBand offers a high level of dexterity and enables high performance data mover, clustering, communication, and storage traffic to be run over an InfiniBand fabric. Application support includes:

- SDP (Sockets Direct Protocol) for running over existing TCP applications
- IPolB (Internet Protocol over InfiniBand) runs IP over InfiniBand links
- SRP (SCSI Remote Protocol) initiator for storage area networking (SAN)
- Embedded application support: video streaming, aerospace, military, electronic controls
- MPI (Message Passing Interface) for high-performance clustering
- Mirror API

IB4X-PMC-2 is based on Mellanox's InfiniHost™ silicon featuring a HCA core capable of full wire speed transmissions over InfiniBand links. With a full hardware implementation of the InfiniBand architecture and hardware transport, the core fully supports RDMA transfers to reduce CPU overhead and free the host processors for application use.



IB4X-PMC-2 HCA

Specifications

Bandwidth
- 40 Gb/s total InfiniBand
- 8.5 Gb/s PCI-X bus

Interfaces
- Two 4x copper ports
- PCI-X, 3.3V, 32/64-bit, 33/66/133 MHz and 100 MHz

Conformance
- Interoperable with IBTA ver. 1.1
- Interoperable with PCI 2.2
- Interoperable with PCI-X 1.0

Silicon
- Single Mellanox InfiniHost

Size
- 74.0 mm x 149.0 mm

Voltage
- 3.3 VDC +/- 5%
- 5 VDC +/- 5%

Power Requirements
- 13 Watts maximum
- 9 Watts typical @ 66/100 MHz PCI bus speeds
- 10 Watts typical @ 133 MHz PCI bus speeds

Temperature
- Operating: 0˚ to +40˚ C
- Storage: -20˚ to +70˚ C

Software Support

IB4X-PMC-2 includes drivers for:
- Linux with MPI, Mirror API, IP/IB, SDP & uDAPL support
- Yellow Dog Linux for 64-bit PowerPCs

Other drivers available:
- IBX-VXWORKS with Mirror API for VxWorks

Ordering Information

IB4X-PMC-2	InfiniBand dual port 4x PMC host channel adapter.
IB4X-PCIX-2	InfiniBand dual port 4x PCI-X host channel adapter.
IB4X-LPCIX-2	InfiniBand low profile dual port 4x PCI-X host channel adapter.
IB4X-LPCIEXP-2	PCI Express low profile dual port 4x InfiniBand HCA.
EIS-4024-1U	Data communications switch with 24 ports.
EIS-4096-7U	Data communications switch with 96 ports.
IB4X-3	3 meter InfiniBand cable.
IB4X-5	5 meter InfiniBand cable.
IB4X-PMC-KIT	Starter kit includes one EIS-4024-1U switch, three IB4X-PMC-2 HCAs, and three IB4X-3 3-meter cables
IB4X-LPCIX-KIT	Starter kit includes one EIS-4024-1U switch, three IB4X-LPCIX-2 HCAs, and three IB4X-3 3-meter cables

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