# CM-220 Infiniband Switch Blade
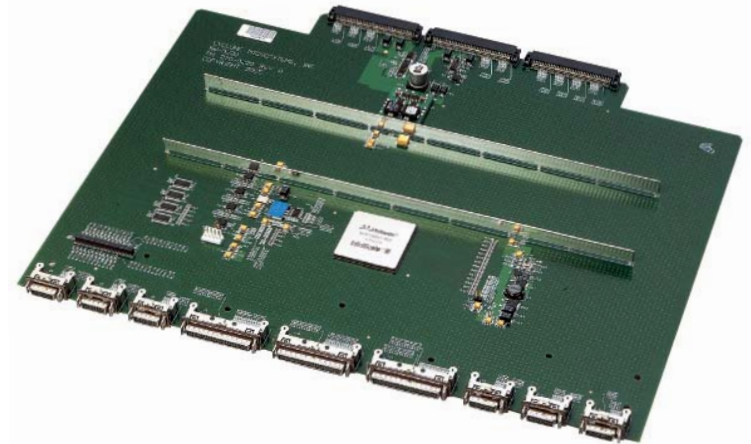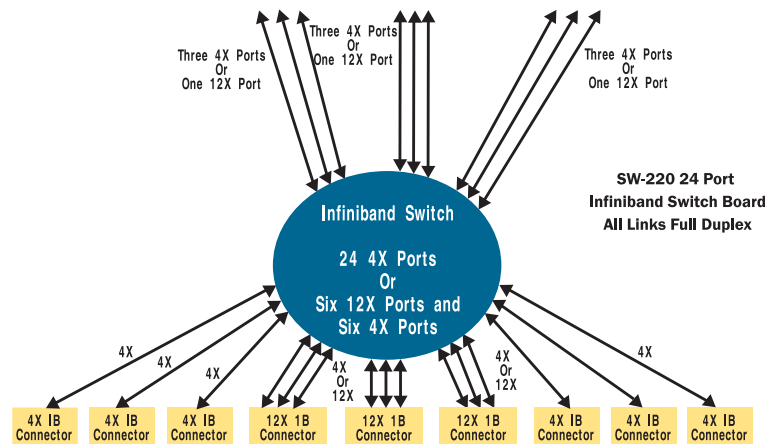
♦ **Customer Specific Design**

♦ **480 Gb/s Aggregate Traffic**

♦ **Low Latency**

♦ **Embedded Infiniband Switch**

## Features

♦ **Mellanox 24 Port 4X Infiniband Switch**
- **480 Gb/s Total Switching Bandwidth**
- **Non-Blocking, Low Latency switching - (less than 200 nano sec)**
- **Integrated Subnet Management Agent**
- **Hardware Credit Based Link Level Flow Control**
- **Hardware CRC Checking and Generation**

♦ **Nine 4X ports (10Gb/s) on backplane or Three 12X (30Gb/s) ports or any combination on 12X connectors on end panel**

♦ **LED Status for every port**

♦ **I²C Configuration and System Management Interface**

♦ **Power Consumption**
- **22 Watts Maximum**
- **18 Watts Typical**

♦ **Power Ramp Circuitry allowing live insertion and removal**

♦ **Customer Specific Form Factor**
- **Dimensions 15.120" x 11.734"**

**CM-220 Data Sheet July 2005**

Three 4X Ports Or One 12X Port

Three 4X Ports Or One 12X Port

Three 4X Ports Or One 12X Port

**SW-220 24 Port Infiniband Switch Board All Links Full Duplex**

**Infiniband Switch**

**24 4X Ports Or Six 12X Ports and Six 4X Ports**

4X | 4X | 4X | 4X Or 12X | 4X Or 12X | 4X

| 4X IB Connector | 4X IB Connector | 4X IB Connector | 12X 1B Connector | 12X 1B Connector | 12X 1B Connector | 4X IB Connector | 4X IB Connector | 4X IB Connector |

## Product Description

The CM-220 is an Infiniband Switch Blade with 24 ports of 4X (10 Gbits/s) Interfaces enabling an architecture of 240 Gbits/s of concurrent data transmissions.  Up to 18 of the 4X interfaces can be grouped to run as six 12X interfaces  (30 Gb/s).

The interfaces are split between the front end panel and the backplane.  The CM-220 also includes hot plug power ramp circuitry to allow the board to be removed or installed while system power is live.

This Infiniband Switch Blade is a customer-specific product and is an example of Cyclone Microsystem's ability to architect, execute, and produce advanced products for complex embedded systems.