
**Summary**

The **XRM-FCN-C1** is an I/O Module which provides eight full-duplex high-speed serial communication channels and two JPEG2000 image processing device. The XRM provides the cost-effective solution to applications requiring high-speed data communications such as Infiniband TA, 10G Ethernet, 4x Fibre Channel. It allows easy connection of these cards to devices with compatible connectors and signaling standards by means of a simple, point-to-point connection schemes implemented using off-the-shelf cable assemblies. Both copper and optical(CX4) versions of the FCN connector are supported, with full control and fault signaling for each of the optical power connections.

A separate low-jitter oscillator is provided to support high-bit rate applications where the internal clock is unsuitable.

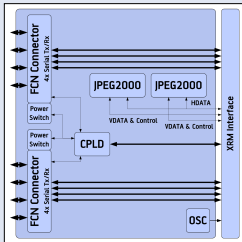
The two JPEG2000 compression/decompression devices allow video processing to be performed with little impact on the User FPGA design.

**Features**
**Applications:**

- Dual Infiniband 4x (4 lanes at 2.5Gb/s over copper or optical fibre)
- Dual 10Gb/s Ethernet CX4 (4 lanes at 3.125Gb/s over copper or optical fibre)
- Dual 10Gb/s Fibre Channel (4 lanes at 3.1875Gb/s over copper or optical fibre)
- Dual 4x OC-48 SONET
- Video compression/decompression interfaces.

**Front Connector I/O:**

Octal High Speed Serial Link via FCN connectors



**Specification**

Product Name	XRM-FCN-C1
Front I/O	<b>High Speed Serial Link:</b> - Octal High Speed Serial Link via FCN connectors connector=Dual FCN ConnectorsUsing a variety of plug in connectors allow for different copper/optical standards to be implemented.
Special Functions	Dual JPEG2000 compression decompression devices.
Software	Example UCF, HDL files and Application software are provided with the board.
Environmental	<b>Temperature:</b> Operating Temperature 0° to +55°C  <b>EMC:</b> FCC 47CFR Part 2 EN55022 Equipment Class B

**Ordering Codes**
**XRM(xver)-FCN-C1(f)**

XRM Version	xver	blank=Original XRM (FPGA products up to Virtex-5), 2=XRM Version 2 (FPGA products Virtex-6 and later)
Oscillator	f	blank=none fitted,/USER=User Defined

Address: 4 West Silvermills Lane,  
Edinburgh, EH3 5BD, UK  
Telephone: +44 131 558 2600  
Fax: +44 131 558 2700  
email: sales@alpha-data.com  
website: <http://www.alpha-data.com>

Address: 3507 Ringsby Court Suite 105,  
Denver, CO 80216  
Telephone: (303) 954 8768  
Fax: (866) 820 9956 toll free  
email: sales@alpha-data.com  
website: <http://www.alpha-data.com>