

XRM-FCN

Datasheet Revision: 1.0

2nd April 2009



The XRM-FCN is an I/O Module which proveds eight full-duplex high-speed serial communication channels. 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.

Applications:

Dual Infiniband 4x (4 lanes at 2.5Gb/s over copper or optical 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

Front Connector I/O:

Octal High Speed Serial links via FCN connectors

Serial	Rx/Tx		Serial Rx/Tx	1	
Serial	Rx/Tx		Serial Rx/Tx		
Serial	Rx/Tx	Connector	Serial Rx/Tx		
Serial	Rx/Tx		Serial Rx/Tx		
		POWER +	Control and Sense Control and Sense		XRM Interface
Serial	Rx/Tx	- 1	Serial Rx/Tx		XRM
Serial	Rx/Tx		Serial Rx/Tx		
Serial	Rx/Tx	Connector	Serial Rx/Tx		
Serial	Rx/Tx		Serial Rx/Tx		
			OSCALATOR	٠	



YRM-FCN



Specification				
Product Name	XRM-FCN			
Front I/O	High Speed Serial Link: - Octal High Speed Serial links via FCN connectors connector-Dual FCN connectorsUsing a variety of plug in connectors allow for different copper/optical standards to be implemented.			
Software	Example UCF, HDL files and Application software are provided with the board.			
Environmental	Temperature: Operating Temperature 0* to +55°C EMC: FCC 47CR Part 2 FMS022 Equipment Class B			

Ordering Codes					
XRM(xver)-FCN(f)					
XRM Version		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			

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