FMC Dual 10GbE with XAUI Interface

FMC106

vadatech
THE POWER OF VISION

FMC106KEY FEATURES

- FPGA Mezzanine Card (FMC) per VITA-57
- Single width
- Dual 1GbE/10GbE via SFP+
- XAUI interface to the FMC at 10GbE speed
- RoHS compliant

The FMC106 is an FPGA Mezzanine Module per VITA 57 specification. The FMC106 has Dual 1GbE/10GbE interface via SFP+ which allows for 1GbE/10GbE to be routed to appropriate FMC pins.

Note: The Carrier must have no component on the top side for 46mm so that this module would fit property. All VadaTech FMC Carriers do provide this clearance.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

VadaTech Incorporated • 11540 South Eastern Avenue, Henderson, NV 89052 • Tel: (702) 896-3337 • Fax (702) 896-0332
Email: info@vadatech.com • www.vadatech.com

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Single-width
		Width: 69mm
		Depth: 76.5mm
Type	**FMC**	10 GbE
		Single FMC slot
Standards		
FMC	**VITA57**	ANSI/VITA 57.1-2008
Configuration		
Power	**FMC106**	10GbE Module dependent
Environmental	**Temperature**	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 400 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**Interface Connectors**	SFP/SFP+
	LEDs	Signal Detect, Transmit ACT, Receive ACT,Present and User define.
Other		
MTBF	MIL Handbook 217-F > TBD.	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Compliance	RoHS and NEBS	
Warranty	Two (2) years.	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

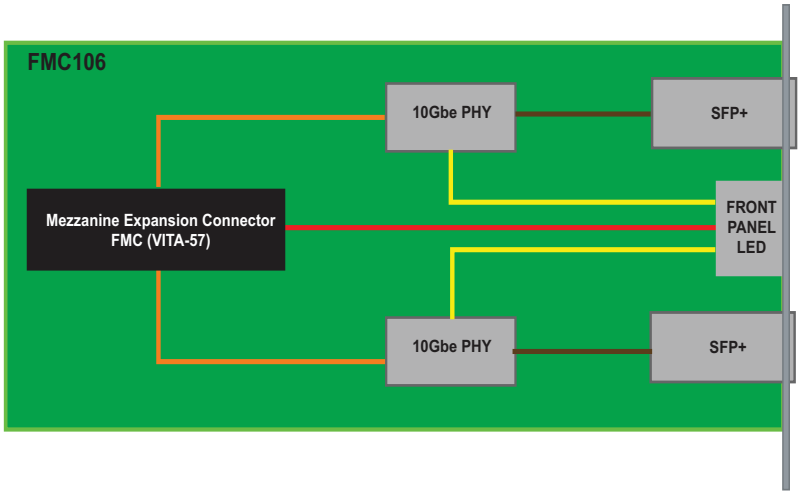
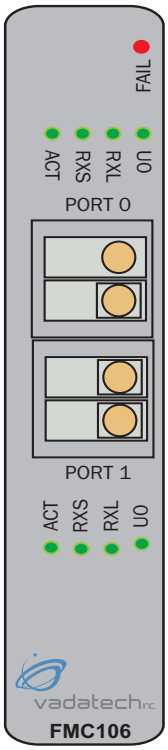


FIGURE 1. FMC106 Functional Block Diagram

FIGURE 2. FMC106 Front panel



ORDERING OPTIONS

FMC106 - AB0 - 000 - 0HJ

A = SFP/SFP+ Transceiver First Port

0 = None
1 = 10GBASE-SR
2 = Reserved
3 = 10GBASE-LRM
4 = 10GBASE-LR
5 = Copper 1000Base-TX
6 = Fiber 1GbE SX
7 = Fiber 1GbE LX

B = SFP/SFP+ Transceiver Second Port

0 = None
1 = 10GBASE-SR
2 = Reserved
3 = 10GBASE-LRM
4 = 10GBASE-LR
5 = Copper 1000Base-TX
6 = Fiber 1GbE SX
7 = Fiber 1GbE LX

H = Operating Temp

0 = Commercial
1 = Industrial

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

Document No. 4FM430-05 REV. 0I.Date:. July 2010 Pass two