

## KEY FEATURES

- FPGA Mezzanine Card (FMC) per VITA-57
- Single width
- Two SFP/SFP+ cages for dual ports
- RoHS compliant

The FMC104 is an FPGA Mezzanine Module per VITA 57 specification. The FMC104 has two SFP/SFP+ cages which allows for dual GbE/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 properly. All VadaTech FMC Carriers do provide this clearance.**

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-width
		Width: 69mm
		Depth: 76.5mm
Type	FMC	GbE/10 GbE Single FMC slot
Standards		
FMC	VITA57	ANSI/VITA 57.1-2008
Configuration		
Power	FMC104	GbE/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
Front Panel	Relative Humidity	5 to 95 percent, non-condensing
	Interface Connectors	SFP/SFP+
	LEDs	Signal Detect, Transmit Disable, Transmit OK, 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.	
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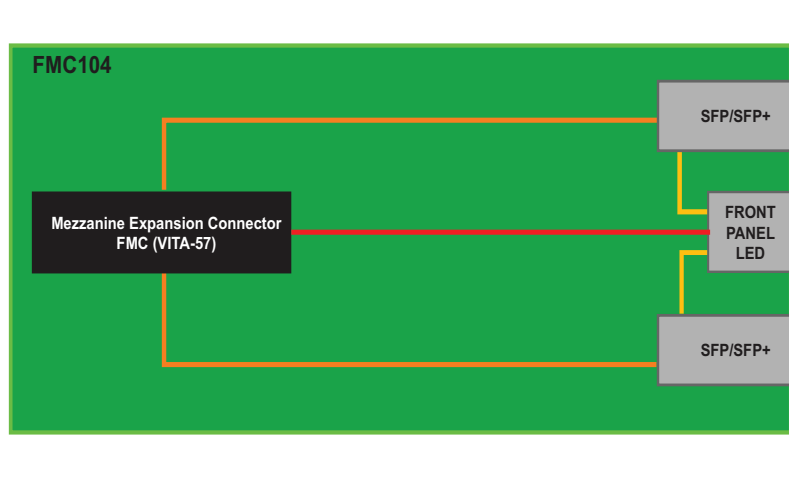
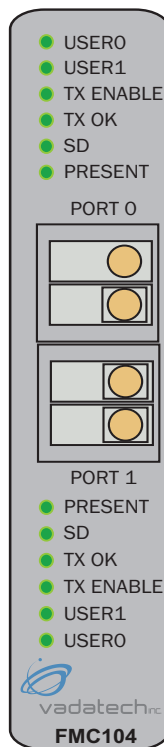


FIGURE 1. FMC104 Functional Block Diagram

FIGURE 2. FMC104 Front panel



## ORDERING OPTIONS

### FMC104 - ABO - 000 - GHJ

#### 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

#### G = FMC Board Spacing

- 0 = 10 mm (per VITA-57 specification)
- 1 = 17.5 mm \*

#### H = Operating Temp

- 0 = Commercial
- 1 = Industrial

#### J = Conformal Coating

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

\* For use with carriers that require higher mating clearance, such as VadaTech AMC595. Requires full size AMC.

