

KEY FEATURES

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

The FMC105 is an FPGA Mezzanine Module per VITA 57 specification. The FMC105 has quad SFP/SFP+ cages which allows for Quad 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. Further this module requires the Carrier board front panel to be modified. When ordering any of the VadaTech FMC Carrier, VadaTech will provide the modified front panel at no extra cost. The FMC105 is shipped without any FMC panel.

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	FMC105	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	None to the front.
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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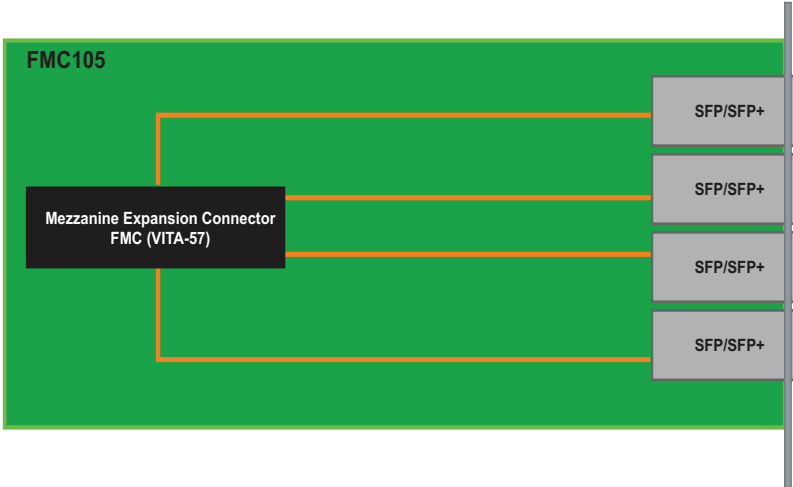


FIGURE 1. FMC105 Functional Block Diagram

ORDERING OPTIONS

FMC105 - ABC - D00 - 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

C = SFP/SFP+ Transceiver Third 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

D = SFP/SFP+ Transceiver Forth 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.

