

KEY FEATURES

- FPGA Mezzanine Card (FMC) per VITA-57
- Single width
- Two QSPF+ cages for 10GbE/SRIO/PCIE and Aurora
- Re-driver on both ports for a better signal quality
- RoHS compliant

The FMC108 is an FPGA Mezzanine Module per VITA 57 specification. The FMC108 has two QSFP+ cages which allows for dual 10GbE/40GbE/SRIO/PCIE/40Gb InfiniBand and Aurora to be routed to appropriate FMC pins. The FMC108 has dual re-driver on board to allow long copper cables for the QSFP+ vs. Fiber to reduce total system cost.

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.

FMC Dual QSFP+ for 10GbE/40GbE/SRIO PCIE/40Gb InfiniBand/AURORA

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-width
		Width: 69mm
		Depth: 76.5mm
Type	FMC	10GbE/SRIO/PCIE/AURORA
		Single FMC slot
Standards		
FMC	VITA57	ANSI/VITA 57.1-2008
Configuration		
Power	FMC108	<3w without the QSFP Fiber Modules
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	QSFP+
	LEDs	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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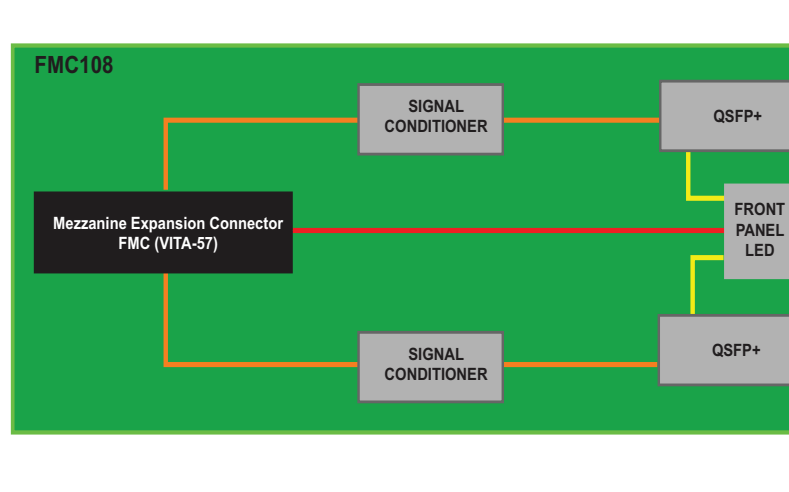
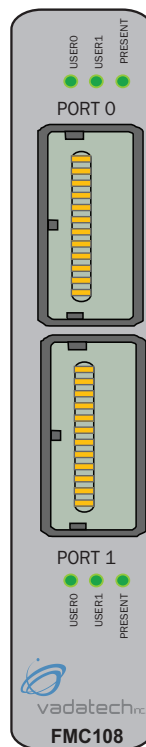


FIGURE 1. FMC108 Functional Block Diagram

FIGURE 2. FMC108 Front panel



ORDERING OPT

FMC108 - A00 - 000 - GHJ

A = QSFP+ Transceivers

- 0 = None
- 1 = Single QSFP+ Transceiver loaded
- 2 = Dual QSFP+ Transceiver loaded

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.

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