

# FMC001

## FMC+ Extender For Ease Of Testing And Validation



FMC001

## Key Features

- FPGA Mezzanine Card (FMC+) per VITA 57.4
- Single module
- FMC+ Extender for ease of testing and validation
- All LA/HA/HB and 24 Differential Pairs (DP) are pass thru
- All the management and power are routed

## Benefits

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company



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# FMC001

The FMC001 mates to the carrier and extend the FMC+ out of the carrier. All the 24 pairs of high-speed signals from the FMC+ connector as well as all LA/HA and HB pairs are routed from the carrier to the FMC+ connector.

When mounting an FMC+ to the FMC001, the FMC+ module will have its components facing down.



Figure 1: FMC001



Figure 2: FMC001 Alternate View



Figure 3: FMC001 Top View



Figure 4: FMC001 Front View

# Block Diagram



Figure 5: FMC001 Functional Block Diagram

# Specifications

Architecture	
<b>Physical</b>	<b>Dimensions</b> Single Module Width: 2.71" (69 mm) Depth: 4.09" (104 mm)
<b>Type</b>	<b>FMC+</b> Extender for Testing and Validation Single FMC+ slot
Standards	
<b>FMC+</b>	<b>Type</b> ANSI/VITA 57.4
Configuration	
<b>Power</b>	<b>FMC001</b> Pass thru
<b>Environmental</b>	<b>Temperature</b> -40° to +85°C Storage Temperature: -50° to +95°C <b>Vibration</b> Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz <b>Shock</b> 30Gs each axis <b>Relative Humidity</b> 5 to 95% non-condensing
<b>Front Panel</b>	<b>Interface Connectors</b> FMC+ connector <b>LEDs</b> None
Other	
<b>MTBF</b>	MIL Handbook 217-F@TBD Hrs.
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable
<b>Standards</b>	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
<b>Warranty</b>	Two (2) years, see <a href="#">VadaTech Terms and Conditions</a>

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

# Ordering Options

FMC001 – 000-000-00J

		<b>J = Conformal Coating</b> 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

## Related Products

AMC517



- AMC FPGA carrier for FMC per VITA 57
- Xilinx Virtex-7 410T FPGA in FFG-900 package with optional P2040
- Supported by DAQ Series™ data acquisition software

AMC532



- AMC FPGA based on Altera Stratix-V (5SGXEA) in F1932 package
- VITA 57.1 FMC HPC Connector (compatible with LPC)
- All FMC LA, HA, HB pairs routed bi-directionally

FMC210



- FPGA Mezzanine Card (FMC) per VITA 57
- Single ADC EV10AS150B @ 2.6 GSPS
- 5 GHz Full Power Input Bandwidth (–3dB)

# Contact

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# Choose VadaTech

## We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



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