FMC151

Multi I/O FMC Module, ECL or NECL Input/Output, RS-422 and Fiber Optics



FMC151

Key Features

- 12 x TX ECL or NECL RX/TX
- 4 x RS-422 RX/TX
- Dual Fiber Optics ST style (1300-nm wave length, 2KM)
 - o FDDI
 - \circ ATM
 - o 100BAES-FX
 - o Custom protocol
- User LED

Benefits

- Single module to provide multiple I/O
- Utilizing commercially-available, standard high-density connector for ease of cabling
- All I/O types utilize differential signaling between the transceivers on the FMC and the FPGA on the carrier for optimal signal integrity across the FMC connector
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company





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The FMC151 is an FPGA Mezzanine Card (FMC) per VITA 57.1 standard (see comment below) offering a small footprint and allowing for general-purpose I/O expansion with Fiber Optics.

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The Module does not follow the VITA57 height constrain. It has an additional Daughter card that mates to the FMC module to allow it to accommodate the Fiber Optics. For example, on the AMC FPGA FMC Carriers, it requires a full-height AMC panel to accommodate all the I/Os. The Carrier must have a monolithic panel (the FMC151 does not come with an FMC panel) to cover the FMC151 I/O envelope.



Figure 1: FMC151

Block Diagram

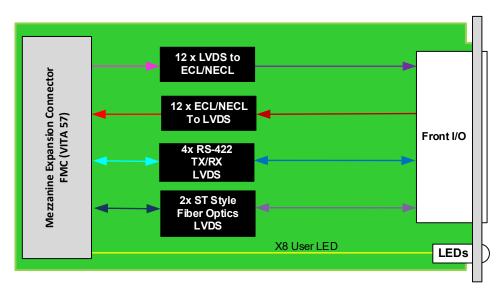


Figure 1: FMC151 Functional Block Diagram

Specifications

Dimensions	Single Module	
	Width: 2.71" (69 mm)	
	Depth: 3.01" (76.5 mm)	
FMC	Digital I/O	
Туре	ANSI/VITA 57.1 - 2008	
FMC151	5W	
Temperature	See Ordering Options	
	Storage Temperature: –40° to +85°C	
Altitude	40,000 ft non-operating	
Vibration	Operating 9.8 m/s2 (1G), 5-500 Hz	
Shock	Operating 30Gs each axis	
Relative Humidity	5 to 95% non-condensing	
Interface Connectors	High-density connector (lathing style) for I/O and ST-Style Fiber Optics	
LEDs	Status	
Operating System	Agnostic	
MIL Hand book 217-F@ TBD hrs		
Designed to meet FCC, CE and UL certifications, where applicable		
VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards		
Two (2) years, see VadaTech Terms and Conditions		
	FMC Type FMC151 Temperature Altitude Vibration Shock Relative Humidity Interface Connectors LEDs Operating System MIL Hand book 217-F@ T Designed to meet FCC, C VadaTech is certified to bo	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

FMC151 - Multi I/O FMC Module, ECL or NECL, RS-422 and Fiber Optics

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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

FMC151 - 000-000-00J

	J = Temperature Range and Coating 0 = Commercial (-5° to +55°C), No coating 1 = Commercial (-5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (-5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (-20° to +70°C), No coating 4 = Industrial (-20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (-20° to +70°C), Humiseal 1B31 Acrylic 6 = Extended (-40° to +85°C), Humiseal 1A33 Polyurethane* 7 = Extended (-40° to +85°C), Humiseal 1B31 Acrylic*

Notes: * Conduction cooled; temperature is at edge of module. Consult factory for availability.

Related Products



- Xilinx UltraScale™ XCKU115 FPGA
- Dual ADC 12-bit @ 6.4 GSPS or quad ADC at 3.2 GSPS
- Dual DAC 16-bit @ 12 GSPS (AD9162 or AD9164)



- Xilinx Zynq® UltraScale+ XCZU15EG FPGA
- 8 GB of 64-bit wide DDR4 Memory (single bank) with ECC
- MPSoC with block RAM and UltraRAM

Contact

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014 Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

Choose VadaTech

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- · 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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