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THE POWER OF VISION

FMC IRIG-B Module – FMC150

FMC, IRIG-B Module

KEY FEATURES

- FPGA Mezzanine Card (FMC) per VITA-57
- Single-module
- Input for 1PPS, 10 MHz or IRIG-B
- Module or DC level shift IRIG-B per 200-04
- Encode the year (2 digits) through second of the preceding 1PPS
- RoHS compliant

Benefits of Choosing VadaTech

- Array of FMC's and FMC carriers available from VadaTech
- 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

The FMC150 is an FPGA Mezzanine Module per VITA 57 specification. The FMC150 has a 1PPS, 10 MHz or IRIG-B input.

The FMC150 provides the signals to the FPGA from which the firmware will use the decoded IRIG-B data to set second's year digits only.

The 3 inputs will be used along with front end parts, the FPGA and uP to control a time-decade clock that will have 16 BCD digits: 1 digit of the year of the decade, 3 digits of days, 2 digits of hours, 2 digits of minutes, 2 digits of seconds and 6 digits of microseconds.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

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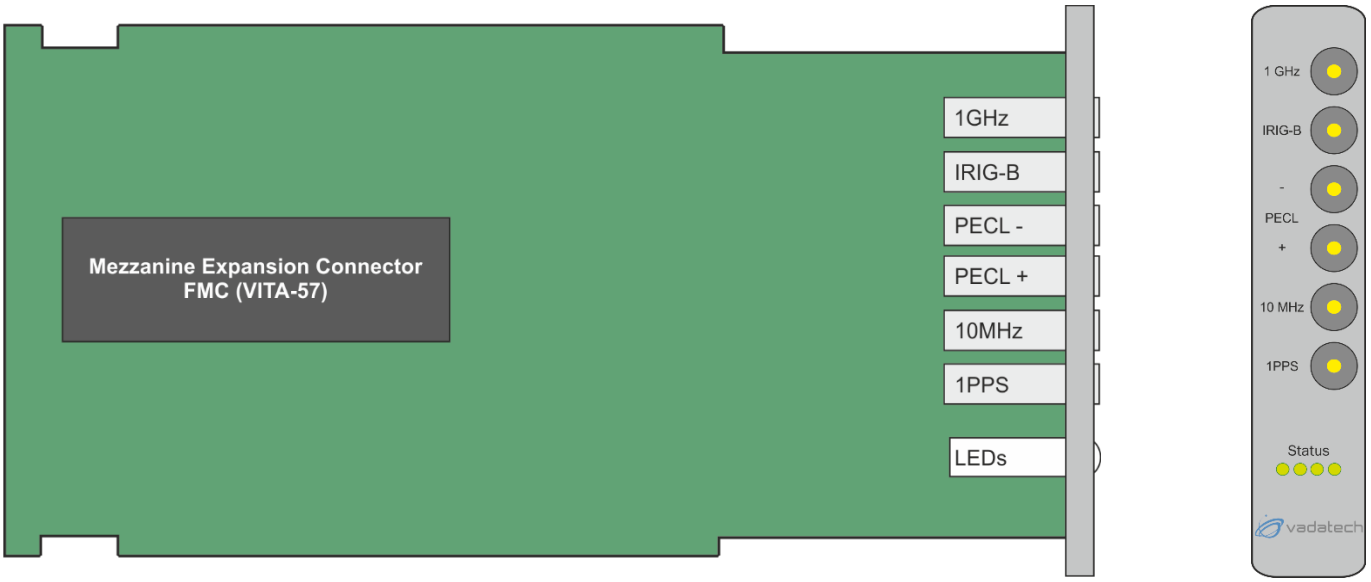
INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), 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.

BLOCK DIAGRAM AND FRONT PANEL



SPECIFICATIONS

Architecture		
Physical	Dimensions	Single FMC
		Width 2.71" (69 mm)
		Depth 3.01" (76.5 mm)
Type	FMC	IRIG-B
		Single FMC
Standards		
FMC	VITA-57	ANSI/VITA 57.1-2008
Configuration		
Power	FMC150	4 W
Environmental	Temperature	Operating Temperature: -5° to 55° C (air flow requirements >200 LFM))
		Storage Temperature: –40° to +85° C
	Vibration	1G, 5 to 500 Hz on each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	Interface Connectors	
	LEDs	Status
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
Other		
MTFB	MIL Hand book 217-F @ TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

ORDERING OPTIONS

FMC150 – 000 – 000 – 0HJ

H = Operating Temperature
0 = Commercial
1 = Industrial

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

RELATED PRODUCTS

AMC517 Kintex-7 FPGA

AMC515 Virtex-7 FPGA

FMC210 ADC FMC

CONTACT US

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