

JANUARY 2011

KEY FEATURES

- FPGA Mezzanine Card (FMC) per VITA-57
- Single width
- Dual A/D 14-bit 125 MSPS
- Dual D/A 14-bit at 500MSPS
- Connection via MMCX
- Clock input and output
- Trig input
- RoHS compliant

The FMC201 is an FPGA Mezzanine Module per VITA 57 specification. The FMC201 has dual A/D at 14-bit 125MSPS as well as dual D/A at 500MSPS.

The A/D converter utilizes the Analog Device AD9258 and the DA converter utilizes the Analog Device AD9781.

The A/D device has SNR of 77.6 dBFS@70Mhz, SDFR of 88 dBc @ 70Mhz. The chip has an integrated ADC sample-and-hold inputs. Flexible analog input range of 1V p-p to 2 V p-p.

The D/A chip has SFDR of 78 dBc at f_{out} = 20Mhz and 66dBc at f_{out} of 120Mhz.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

FMC Dual A/D and Dual D/A Module

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-width
		Width: 69mm
		Depth: 76.5mm
Type	FMC	Dual A/D and D/A Single FMC slot
Standards		
FMC	VITA57	ANSI/VITA 57.1-2008
Configuration		
Power	FMC102	3W
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 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	MMCX
	LEDs	Status
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.	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

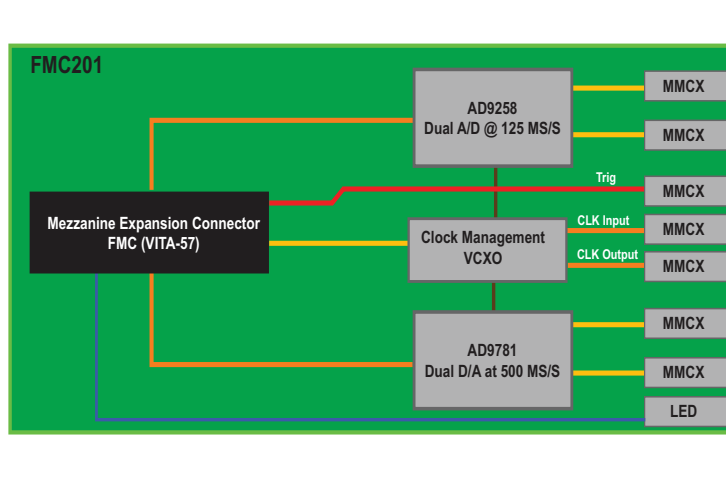
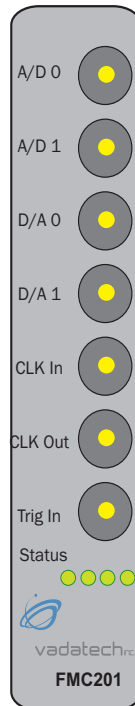


FIGURE 1. FMC201 Functional Block Diagram

FIGURE 2. FMC201 Front panel



ORDERING OPTIONS

FMC201 - 000 - 000 - OHJ

H = Operating Temp

- 0 = Commercial
- 1 = Industrial

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

