

FMC162

MIL-STD-1553A/B



FMC162

Key Features

- Support for MIL-STD-1553A/B, MIL-STD-1760
- Quad channels

Benefits

- Advance MIL-STD-1553 Technology from DDC coupled with VadaTech FPGA Carriers
- Software support
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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FMC162

The FMC162 is based on the Data Device Corporation (DDC) BU-67301B chip. It utilizes the world's most advanced MIL-STD-1553 technology. The module is low power, high MTBF, and high performance.

The FMC162 provide four channels of MIL-STD-1553.



Figure 1: FMC162

Block Diagram

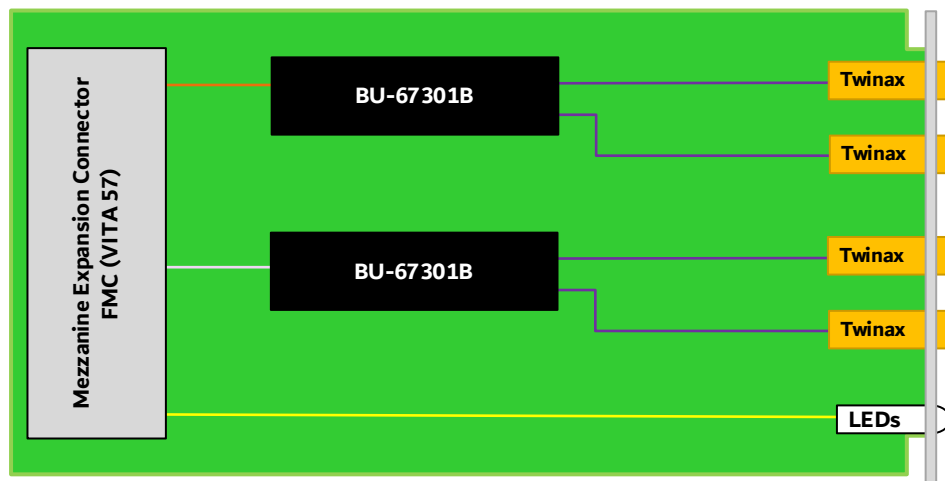


Figure 2: FMC162 Functional Block Diagram

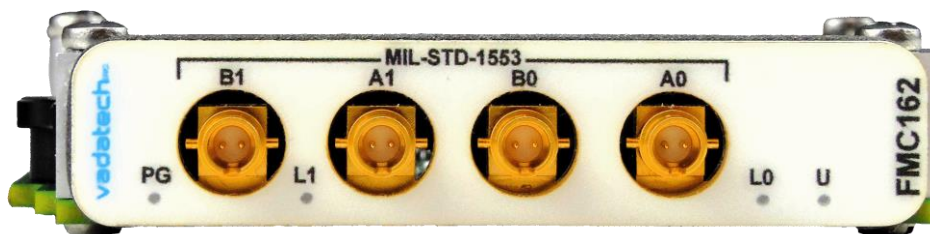


Figure 3: FMC162 Front Panel

Specifications

Architecture		
Physical	Dimensions	Single Module
		Width: 2.71" (69 mm)
		Depth: 3.01" (76.5 mm)
Type	FMC	Quad Channel MIL-STD-1553A/B, Single FMC
Standards		
FMC	Type	ANSI/VITA 57.1 - 2008
Configuration		
Power	FMC162	~5W
Environmental	Temperature	See Ordering Options
		Storage Temperature: -40° to +85°C
	Vibration	1G to 5-500 Hz on each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	Interface Connectors	4x Twinax
	LEDs	Status
Software Support	Operating System	Agnostic
Other		
MTBF	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 ISO9001:2015 and AS9100D standards	
Warranty	Two (2) years, see VadaTech Terms and Conditions	

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

FMC162 – 000-000-G0J

		G = FMC Board Spacing 0 = 10 mm (per VITA 57 specification) 1 = 17.5 mm*
		J = Temperature Range and Conformal 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 = Extended Industrial (–40° to +70°C), No coating 4 = Extended Industrial (–40° to +70°C), Humiseal 1A33 Polyurethane 5 = Extended Industrial (–40° 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:

*For use with carriers that require higher mating clearance, such as VadaTech AMC595. Requires full size AMC.

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

Related Products

AMC516



- AMC FPGA carrier for FMC per VITA 57
- Xilinx Virtex-7 690T FPGA in FFG-1761 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

FMC109



- FPGA Mezzanine Card (FMC) per VITA 57
- Single module
- Quad SPF/SPF+ cages for Quad Ports

Contact

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