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THE POWER OF VISION

AMC 16-channel Isolated Input Module – AMC095

16-Channel Input Module

KEY FEATURES

- Eight TTL/CMOS input channels
- Eight 0 to 10 volt input channels
- Single module, compact size (mid-size and full-size available)
- Front panel I/O connectivity in a compact size AMC compliant form factor
- Programmable de-bounce times are software controlled on a channel-by-channel basis
- Change-Of-State (COS) selections:
  - Disabled
  - Rising edge, low-to-high transition
  - Falling edge, high-to-low transition
  - Level sensitive
- Input voltage from 10 V to 38 V with 45 V surge @ 500 ms
- AMC.1 compliant
- IPMI 2.0 compliant

AdvancedMC™

Benefits of Choosing 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

Designed to solve the real world I/O problems of Military, Industrial and Telecom applications. The AMC095 is a 16-Channel Optically Isolated Input AdvancedMC™ (AMC) module. Eight channels are factory configured for TTL/CMOS inputs and the other eight channels are configured for 0 V to 10 V source inputs (other voltage ranges are available, contact Sales for more information).

Designed for maximum flexibility in mind, the AMC095 features an FPGA that provides a number of software programmable functions which include: programmable de-bounce on a channel-by-channel basis (increment of 1 ms resolution), programmable Change-of-State (COS) interrupts (rising edge, falling edge or level sensitive), and multi-channel sensitive input masked interrupts.

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

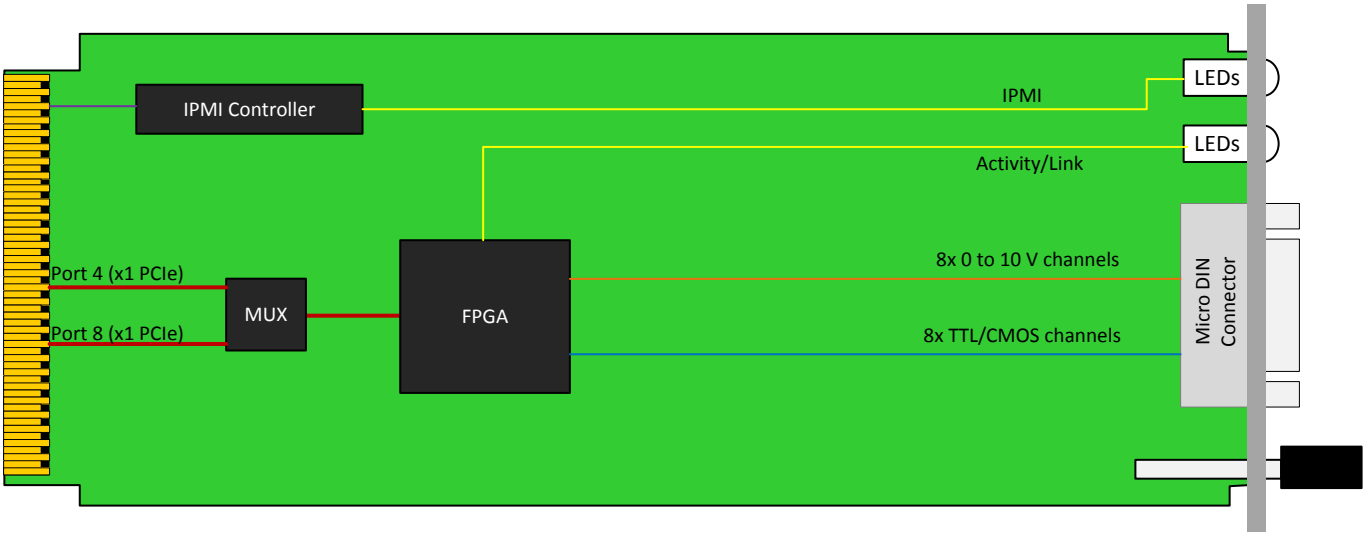

Figure 1: Block Diagram

FRONT PANEL

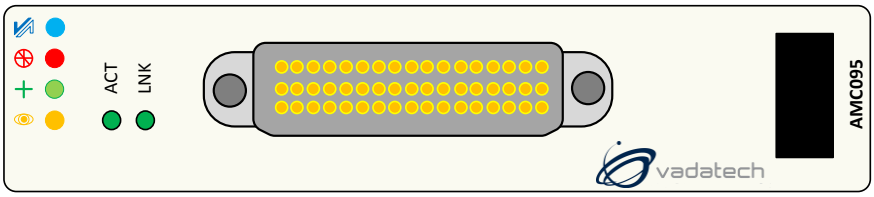

Figure 2: Front Panel

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
		Single module, compact size (mid and full size options available)
Type	AMC Input	16 inputs: Eight TTL/CMOS channels and Eight 0-10 V channels
Standards		
AMC	Type	AMC.0 and AMC.1
Module Management	IPMI	IPMI version 2.0
PCIe	Lanes	x4
Configuration		
Power	AMC095	3W
Environmental	Temperature	Operating temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply), (See environmental spec sheet)
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500Hz on each axis
	Shock	Operating 30Gs each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	51-pin Micro DIN connector
	LEDs	IPMI management control
		Activity / Link / Status LEDs
	Mechanical	Hot swap ejector handle
Software Support	Operating System	Independent
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 ISO9001:2000 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

AMC095 – 00C – 000 – 00J

C = Front Panel
1 = Compact-size
2 = Mid-size
3 = Full-size
4 = Compact-size, MTCA.1 (captive screw)
5 = Mid-size, MTCA.1 (captive screw)
6 = Full-size, MTCA.1 (captive screw)

J = Temperature Range and Coating
0 = Commercial, No coating
1 = Commercial, Humiseal 1A33 Polyurethane
2 = Commercial, Humiseal 1B31 Acrylic
3 = Industrial, No coating
4 = Industrial, Humiseal 1A33 Polyurethane
5 = Industrial, Humiseal 1B31 Acrylic
6 = Extended, Humiseal 1A33 Polyurethane*
7 = Extended, Humiseal 1B31 Acrylic*

RELATED PRODUCTS

UTC008
µTCA JTAG Switch Module (JSM)

VT866 5U
Chassis Platform

UTC004
MicroTCA Carrier Hub (MCH)

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