

AMC 16-channel Isolated Input Module – AMC095

16-Channel Input Module



AdvancedMC™

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 10V to 38V with 45V surge @ 500 ms
- AMC.1 compliant
- IPMI 2.0 compliant

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

AMC095 is designed to solve the real world I/O problems of Military, Industrial and Telecom applications. The unit 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 0V to 10V source inputs (other voltage ranges are available, contact Sales for more information).

The AMC095 is also designed with maximum flexibility in mind, it 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.

See [Super Carrier](#) for high-density processing platforms compatible with this product.

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INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and MTCA 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

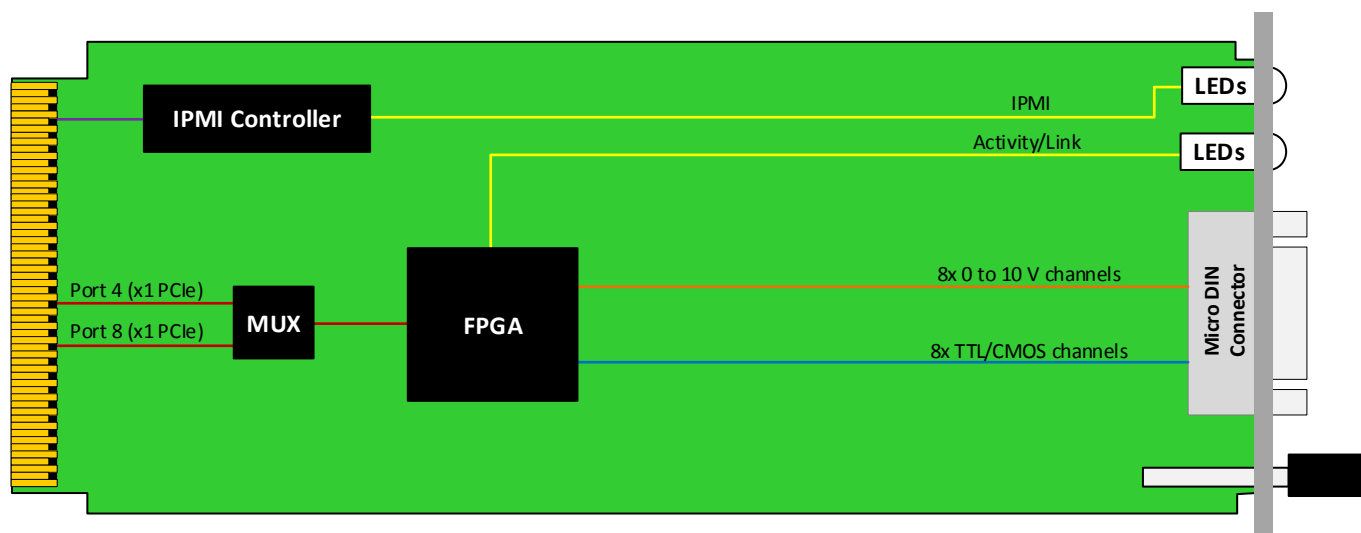


Figure 1: Block Diagram

FRONT PANEL

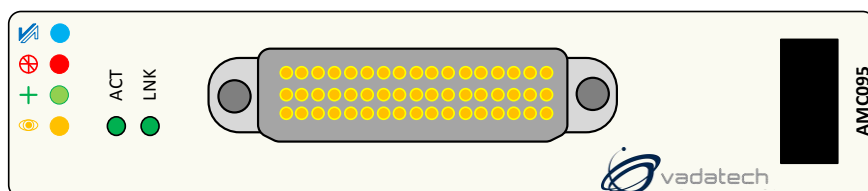


Figure 2: Front Panel

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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 0-10V channels
Standards		
AMC	Type	AMC.0 and AMC.1
Module Management	IPMI	IPMI v2.0
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/s² (1G), 5 to 500 Hz on each axis
	Shock	Operating 30Gs each axis
	Relative Humidity	5 to 95 % non-condensing
Front Panel	Interface Connectors	51-pin Micro DIN connector
	LEDs	IPMI management control
		Activity/Link/Status LEDs
	Mechanical	Hot-swap ejector handle
	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 ISO9001:2015 and AS9100D standards	
Warranty	Two (2) years, see VadaTech Terms and Conditions	
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	

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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*

Notes:

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

RELATED PRODUCTS



UTC008
MTCA JTAG Switch Module (JSM)



VT866 5U
Chassis Platform



UTC004
MicroTCA Carrier Hub (MCH)

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