



KEY FEATURES

- Eight TTL/CMOS input channels
- Eight 0 to 10 volt input channels
- Single-width, half-height* (mid-height and full-height available)
 - *Patent-pending design allows standard front panel I/O connectivity in a half-height AMC compliant form factor
- Programmable debounce 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 @ 500ms
- AMC.1 compliant
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
 - Linux
 - Windows
 - Solaris
 - VxWorks

Designed to solve the real world I/O problems of Military, Industrial and Telecom applications. The AMC090 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 0-10V source inputs (other voltage ranges are available, contact Sales for more information).

Designed for maximum flexibility in mind, the AMC090 features an FPGA that provides a number of software programmable functions which include: programmable debounce on a channel-by-channel basis (increment of 1ms resolution), programmable Change-of-State (COS) interrupts (rising edge, falling edge or level sensitive), and multi-channel sensitive input masked interrupts.

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

AdvancedMC™

AMC 16 Channel Isolated Input Module

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Half-Height (with Mid or Full-Height options)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Input	16 total inputs
		Eight TTL/CMOS channels
		Eight 0 to 10 volt channels
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	x4
Configuration		
Power	AMC090	3.5W
		IPMI Controller < 30 mA @3.3V
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	51-Pin Micro DIN style
	LEDs	IPMI Management Control
		Activity and Link
Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Spec 217-F > 238,000 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	
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.	
Notes	The Half-Height front panel is a patent-pending design. Contact your Sales representative for more information.	

AMC 16 Channel Isolated Input Module

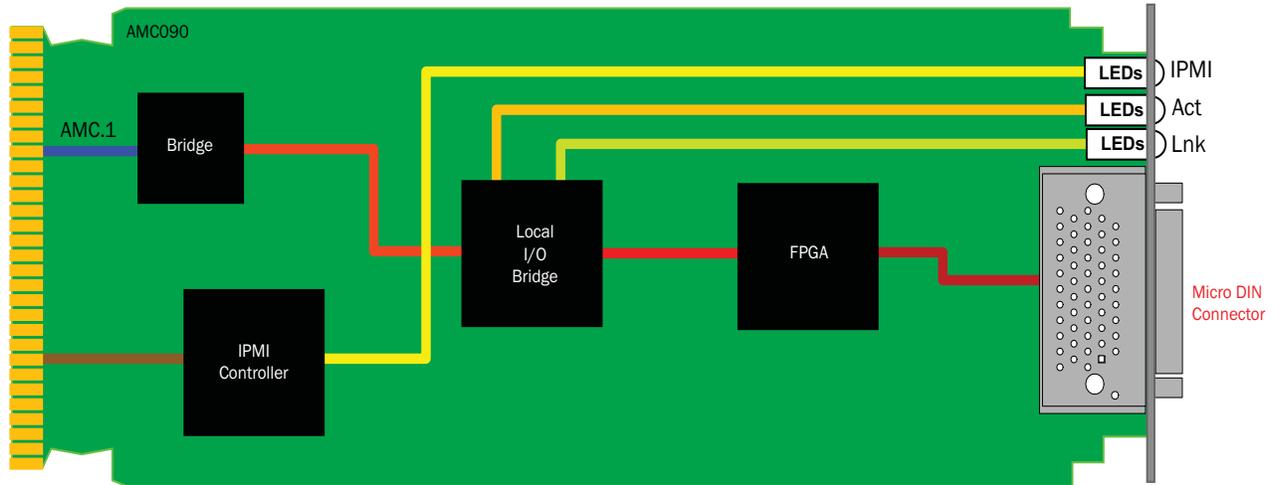


FIGURE 1. AMC090 Functional Block Diagram

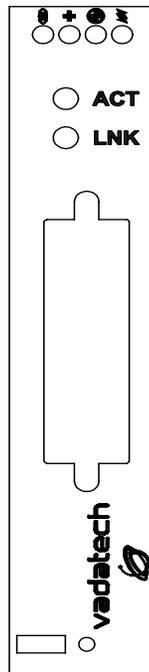


FIGURE 2. AMC090 Front Panel

AMC 16 Channel Isolated Input Module

ORDERING OPTIONS

AMC090 - 00C - 000 - OHJ

C = Front Panel

- 1 = Half-Height
- 2 = Mid-Height
- 3 = Full-Height

H = Operating Temp

- 0 = Commercial
- 1 = Industrial

J = Conformal Coating

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



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