

AMC 24-channel Isolated Output Module – AMC097

24-Channel Output Module



KEY FEATURES

- 24-channel isolated output
- Single module, compact size (mid-size and full-size available)
- Front panel I/O connectivity in a half-size AMC compliant form factor
- Input voltage from 10V to 38V with 45V surge @ 500 ms
- Interrupt levels are user selectable
- AMC.1 compliant
- IPMI 2.0 compliant
- RoHS 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

The AMC097 is a single module, compact size (mid-size and full-size options are available) AdvancedMC™ (AMC) 24-Channel Isolated Output board.

The outputs are divided into two categories. The isolated output voltage is used to drive 12 ports and another set of 12 Ports is used to sink current.

Each output channel is independent and is processed separately, so activity on one channel has no effect on other channels. A key feature of the AMC097 is the capability to have multiple outputs change state with a single atomic-write transaction.

On the AMC097 the PODO is connected to the +28V Air Craft Voltage.

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

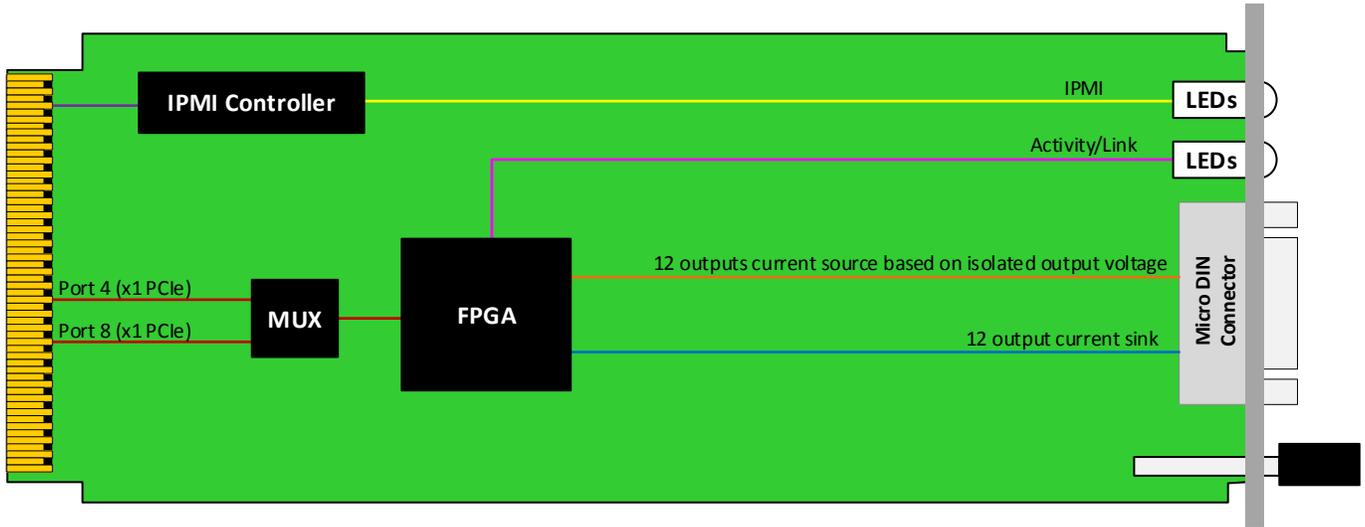


Figure 1: Block Diagram

FRONT PANEL

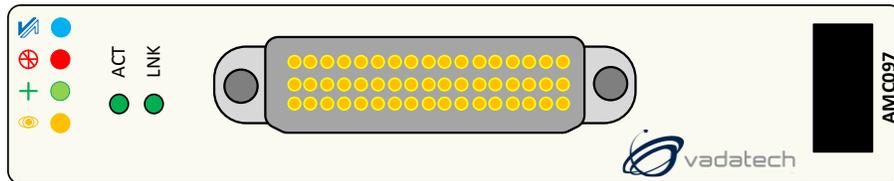


Figure 2: Front Panel

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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	24 outputs: Twelve outputs current source based on isolated output voltage, Twelve outputs current sink. Multiple outputs will change state with a single write.
Standards		
AMC	Type	AMC.0 and AMC.1
Module Management	IPMI	IPMI v2.0
PCIe	Lanes	x4
Configuration		
Power	AMC097	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 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
Software Support	Operating System	Independent
Other		
MTBF	MIL Hand book 217-F@ 242,000 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

AMC097 – 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)

Notes:

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

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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