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 compact 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 AMC099 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 AMC099 is the capability to have multiple outputs change state with a single atomic-write transaction.

On the AMC099 the PODO is connected to the +5V Air Craft Voltage.

See Super Carrier for high-density processing platforms compatible with this product.

AMC 24-channel Isolated (12 drive, 12 sink) Output Module – AMC099

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.
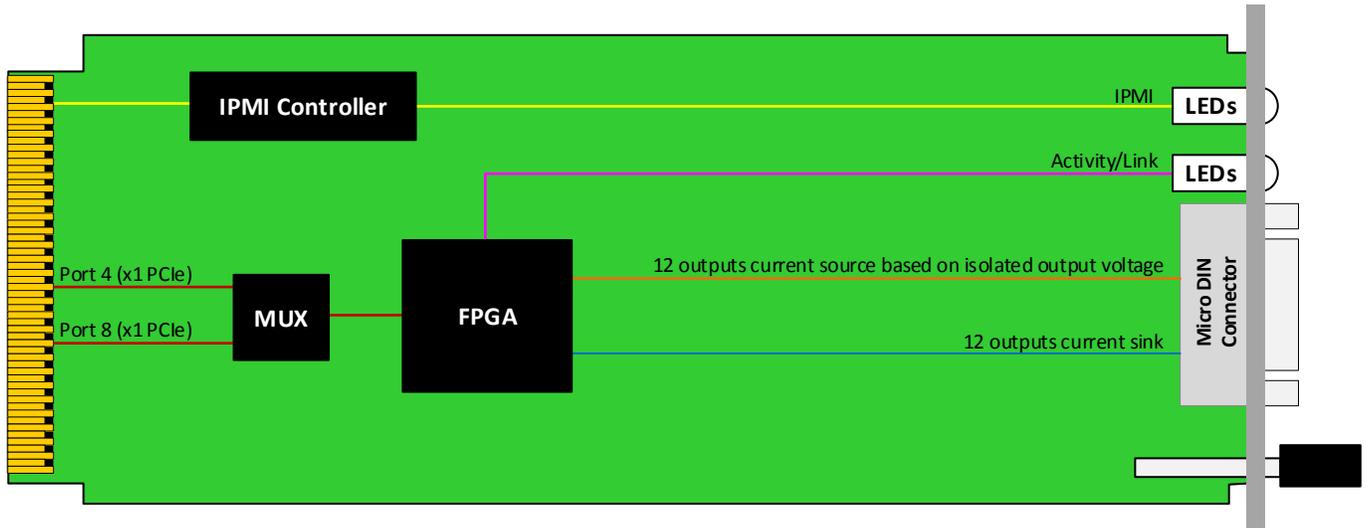
BLOCK DIAGRAM
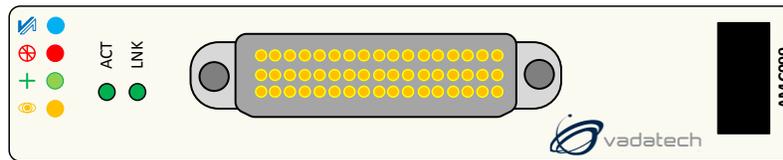

Figure 1: Block Diagram

FRONT PANEL

Figure 2: Front Panel

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 optically isolated outputs: Twelve outputs are current source based on isolated outputs and twelve outputs are current sinks. 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	AMC099	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

Doc No 4FM737-12 Rev 01

Version 2.0 – FEB/20

www.vadatech.com

vadatech
THE POWER OF VISION

info@vadatech.com

ORDERING OPTIONS

AMC099 − 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)

CONTACT US

VadaTech Corporate Office

198 N. Gibson Road,
Henderson, NV 89014
Email: info@vadatech.com
Telephone: +1 702 896-3337
Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District,
Taipei 114,Taiwan
Email: info@vadatech.com
Telephone: +886-2-2627-7655
Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton,
SO40 9LR
Email: info@vadatech.com
Telephone: +44 2380 016403