

# AMC013

## Isolated I/O Expansion



AMC013

## Key Features

- Isolated RS-485
- Ten Isolated Output
- Ten Isolated Input
- Single ST Style Fiber optical output
- Seamless connection to the VadaTech FMC155 module
- IPMI 2.0 compliant
- RoHS compliant

## Benefits

- VadaTech has full eco-system across multiple I/O modules
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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# AMC013

The AMC013 provides an easy way to connect to the FMC155 module to provide expansion of the I/O. The module provides Isolated RS-485, Ten Isolated Output, Ten Isolated Input and a single Fiber ST style optical output.

The Isolated Input voltage could be as high as 60V and the output drive could be as high as 35V.

**The module comes only in 8HP panel.**



Figure 1: AMC013

# Block Diagram

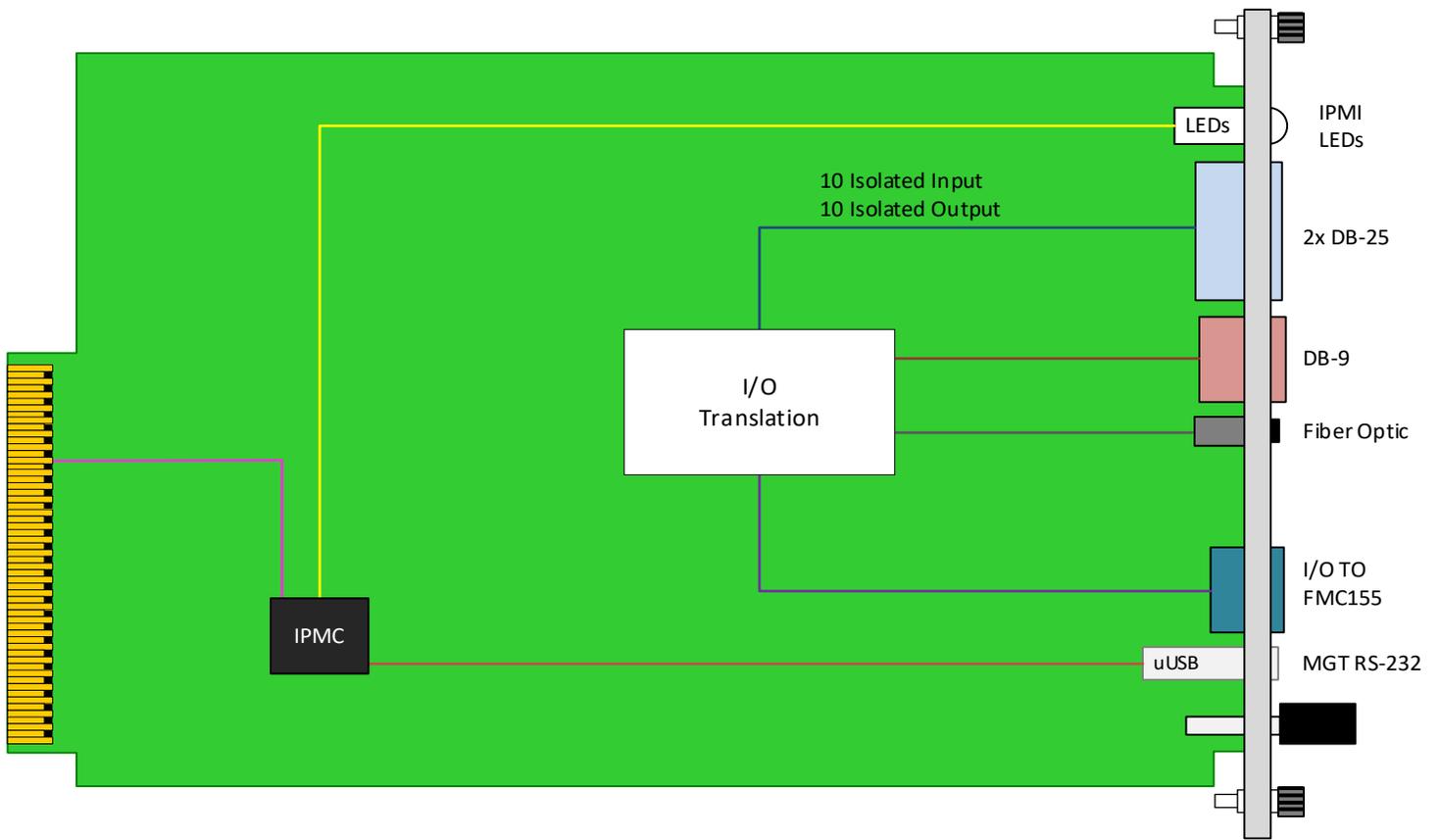


Figure 1: AMC013 Functional Block Diagram

# Front Panel



Figure 2: AMC013 Front Panel

# Specifications

Architecture	
<b>Physical</b>	<b>Dimensions</b> Double module, Extended Height (8HP) Width: 5.85" (148.5 mm) Depth 7.11" (180.6 mm)
<b>Type</b>	<b>AMC Development</b> Airflow test and monitoring
Standards	
<b>AMC</b>	<b>Type</b> AMC.0
<b>Module Management</b>	<b>IPMI</b> IPMI version 2.0
Configuration	
<b>Power</b>	<b>AMC013</b> 3 W
<b>Environmental</b>	<b>Temperature</b> Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial versions also available (See <a href="#">environmental spec sheet</a> ) Storage Temperature: -40° to +95°C <b>Vibration</b> Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500Hz on each axis <b>Shock</b> Operating 30G each axis <b>Relative Humidity</b> 5 to 95 per cent, non-condensing
<b>Front Panel</b>	<b>Interface Connectors</b> Micro USB or management RS-232 Menu push button for display scroll <b>LEDs</b> IPMI management control <b>Display</b> LCD display to output status <b>Mechanical</b> Hot swap ejector handle
Other	
<b>MTBF</b>	MIL Hand book 217-F@ TBD hrs
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable
<b>Standards</b>	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards
<b>Warranty</b>	Two (2) years

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and  $\mu$ TCA 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.

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# Ordering Options

## AMC013 – 00C-000-00J

C = Front Panel Size	J = Temperature Range and Coating
1 = Reserved 2 = Reserved 3 = Reserved 4 = Reserved 5 = Reserved 6 = Reserved 7 = 8 HP, MTCA.1 (captive screw)	0 = Commercial (–5° to +55°C), No coating 1 = Commercial (–5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (–5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (–20° to +70°C), No coating 4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic 6 = Extended (–40° to +85°C), Humiseal 1A33 Polyurethane* 7 = Extended (–40° to +85°C), Humiseal 1B31 Acrylic*

## Related Products

AMC001



- Single-width, mid-height or full-height
- 32-bit IPMI RISC processor
- Up to 90W adjustable power load
- True payload power request to the carrier (MCH/Shelf)

AMC011



- Up to 192W adjustable power load
- True payload power request to the carrier (MCH/Shelf)
- Front panel LCD to indicate status

MRT012



- Five zone airflow sensor
- Eight temp sensors to monitor various on-board temperatures
- Module allows adding blocks to emulate a true payload module impedance

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## We are technology leaders

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- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



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