

AMC011

MTCA.4 Load Testing and Monitoring with Display, AMC



AMC011

Key Features

- Up to 192W adjustable power load
- True payload power request to the carrier (MCH/Shelf)
- Front panel LCD to indicate status
- Eight temp sensors to monitor various on-board temperatures and status
- Allows loopback on ports 0-15 and 17-20
- RISC processor
- IPMI 2.0 compliant
- RoHS compliant

Benefits

- LCD Display for easy monitoring
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house

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AMC011

The AMC011 provides an easy way to test/monitor AMC slots under different power loading conditions. The module includes two front panel switches for configuration. The rotary switch is read during power up by the on-board IPMI controller, which uses the setting to request the specified amount of power needed during test and verification from the carrier (MCH/Shelf). A second switch is used to increase or decrease the actual power consumption of the board at any time during the test.

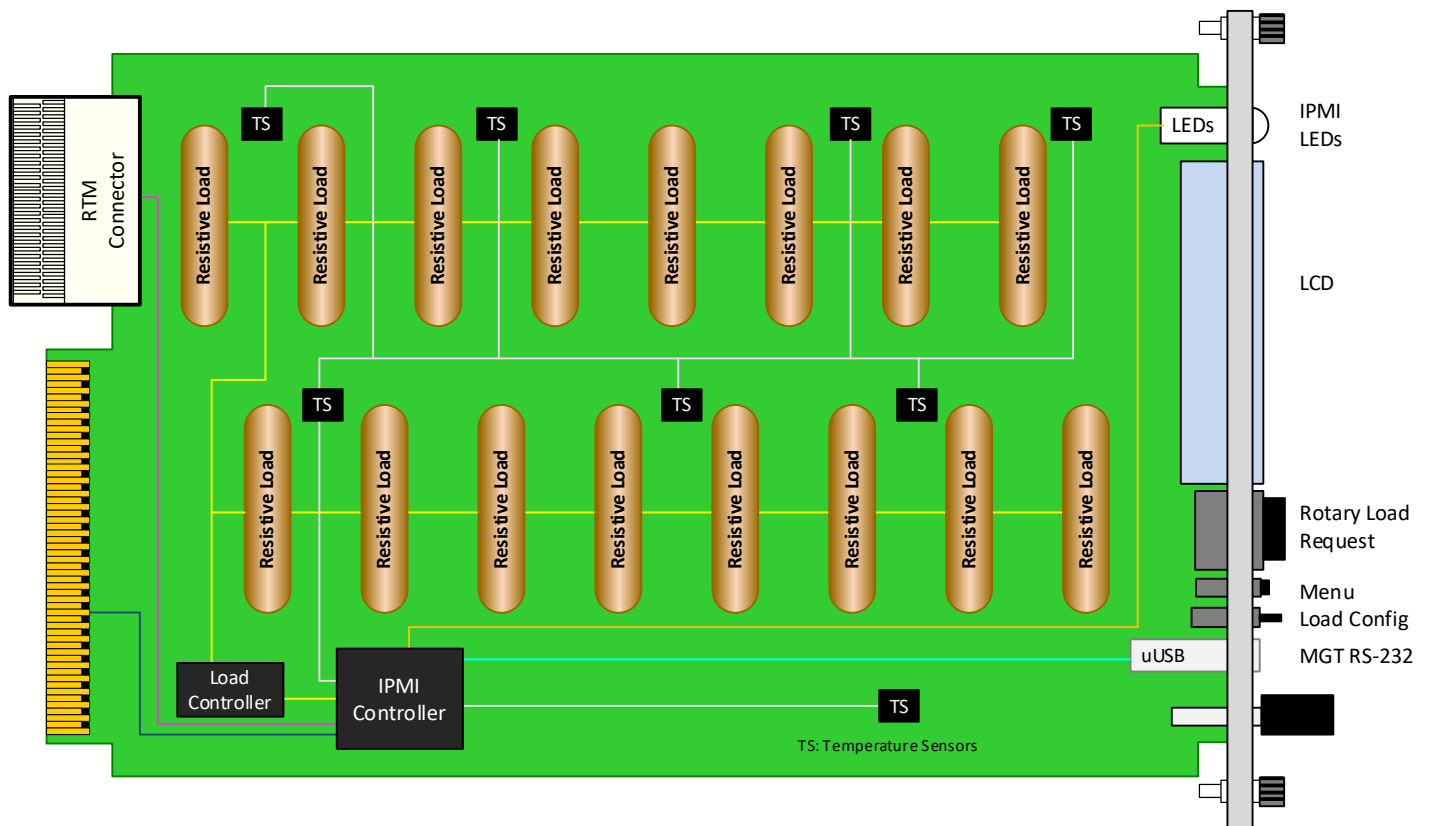
An LCD display on the front panel allow for effortless monitoring of the power being used. There is a temperature sensor on the air flow intake side and others at the air flow exit side to continually monitor the air temperature. A push button allows the user to scroll the display output.

The module has a serial port in the front that allows a more dynamic configuration of the load using predefined profiles selected from a menu driven interface.

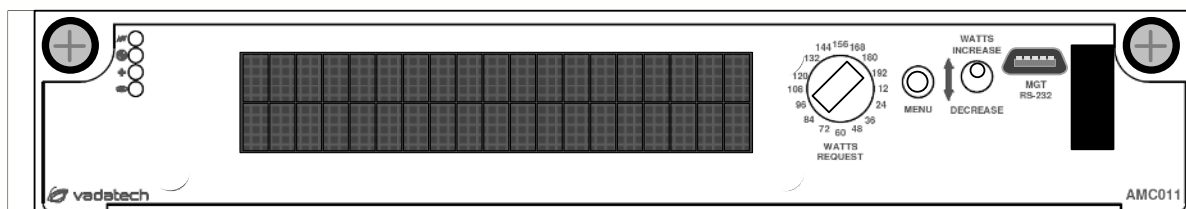
AMC011 allows loopback on ports 0-15 and 17-20 of the module. This will also allow ease of testing/validation of the backplane.



Block Diagram



Front Panel



Specifications

Architecture		
Physical	Dimensions	Double module, mid-size (full-size optional)
		Width: 5.85" (148.5 mm)
		Depth 7.11" (180.6 mm)
Type	AMC Development	Load test and monitoring
Standards		
AMC	Type	AMC.0
Module Management	IPMI	IPMI version 2.0
Configuration		
Power	AMC011	192 W
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial versions also available (See environmental spec sheet)
		Storage Temperature: -40° to +95°C
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500Hz on each axis
	Shock	Operating 30G each axis
	Relative Humidity	5 to 95 per cent, non-condensing
	Front Panel	Interface Connectors
	Switches	Micro USB or management RS-232
		Rotary switch for load request, toggle switch for load adjustment
		Menu push button for display scroll
	LEDs	IPMI management control
	Display	LCD display to output status
	Mechanical	Hot swap ejector handle
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 ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and μ 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

AMC011 – ABC-D00-000

A = Loopback on ports 0-15	D = AMC Edge Connector Pin 6*	
0 = No loopback 1 = Loopback	0 = No Connect 1 = To PWR (+12V)	
B = Loopback on ports 17-20		
0 = No loopback 1 = Loopback		
C = Front Panel Height		
1 = Reserved 2 = Reserved 3 = Full-size		

*Note: The latest AMC Specification has the Pin 6 to the PWR (+12V) to allow the AMC module to draw more power. The previous release had this pin as RSRVD6.

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)

AMC012



- Five zone airflow sensor
- Module allows adding blocks to emulate a true pay load module impedance
- Front panel LCD to indicate airflow, temperature and status

MRT011



- Up to 160W adjustable power load
- True payload power request to the carrier (MCH/Shelf)
- Eight temp sensors to monitor various on-board temperatures

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DOC NO. 4FM737-12 REV 01 | VERSION 1.3– AUG/25