

AMC001

AMC Load Module



AMC001

Key Features

- Single module, mid-size or full-size
- 32-bit IPMI RISC processor
- Up to 90W adjustable power load
- True payload power request to the carrier (MCH/Shelf)
- Front panel LED to indicate status and power consumption
- Six temperature sensors to monitor the various on-board temperatures
- All differential pairs routed for ease of access (loopback using zero ohms resistors as option)
- IPMI 2.0 compliant
- RoHS compliant

Benefits

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house

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AMC011

The AMC001 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.

AMC001 has loop back option for ports 0-20. The loop back routes the TX to the RX ports.

The indicators 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 five others at the air flow exit side to continually monitor the air temperature.

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.



Figure 1: AMC001

Block Diagram

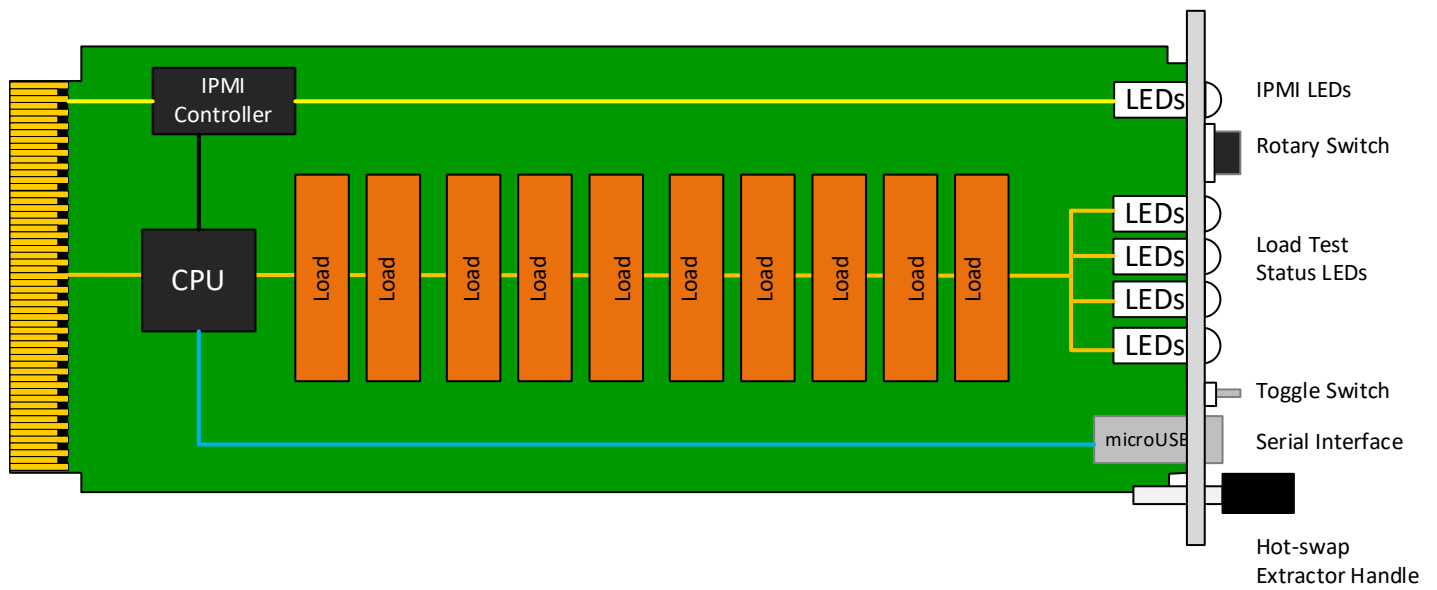


Figure 2: AMC001 Functional block Diagram

Front Panel



Figure 3: AMC001 Front Panel View

Specifications

Architecture		
Physical	Dimensions	Single module, mid-size (full-size optional)
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	AMC Development	Load module for verification
Standards		
AMC	Type	AMC.0
Module Management	IPMI	IPMI version 2.0
Configuration		
Power	AMC001	up to 90W
Environmental	Temperature	Operating temperature: -20° to +75° C
		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 percent, non-condensing
Front Panel	Interface Connectors	Micro USB or management RS-232
	Switches	Rotary switch for load request, toggle switch for load adjustment
LEDs		IPMI management control
		Payload power, power good, reset, etc.
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, see VadaTech Terms and Conditions	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

AMC001 – ABC-D00-000

A = Loop back on ports 0-3 0 = None 1 = Loop back TX to RX	D = Loop back on ports 12-15 0 = None 1 = Loop back TX to RX	
B = Loop back on ports 4-11 0 = None 1 = Loop back TX to RX	E = Loop back on ports 17-20 0 = None 1 = Loop back TX to RX	
C = Front Panel Height 1 = Reserved 2 = Mid-size 3 = Full-size		

*Note:

Related Products

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