AMC Carrier For XMC Modules

AMC102

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AMC102KEY

FEATURES

- Support XMC modules
- AMC.1 compliant
- PCIe Gen3 x8 lanes
- XMC J4 user I/O connector routed to front panel Mini-SCSI type connector
- IPMI 2.0 compliant Module Management Controller (MMC)
- 32-bit IPMI RISC processor
- ANSI/VITA 42.3 (XMC PCI Express)
- RoHS compliant

The AMC102 is a single-width, full-height module based on the AMC.1 Specification. This patented (Patent Pending) design allows a XMC module to fit on a single width AMC.

The module provides PCIe Gen3 x8 to the XMC module. The J4 connector of the PMC/PrPMC is routed to the front panel of the AMC module.

This modular approach allows an AdvancedTCA AMC carrier and µTCA Chassis to utilize the large numbers of XMC modules modules that are available in the market.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

AdvancedMC™

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SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Full-Height
		Width: 2.89in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm
Product Type	AMC Carrier	AMC site carrier for XMC modules
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	x8
Configuration		
Power	AMC102	2 Watts without XMC
	PMC/PrPMC/XMC Power	+5V @ 10A
		+12V @ 4A
		-12V @ 150mA
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	Interface Connectors	Mini SCSI Type Connector
	LEDs	IPMI Management Control
		PCIe x8 lanes
		PCIe signal good
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
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	
Compliance	IEEE Std P1386.1-2001(PMC), ANSI/VITA 32-2003 (PrPMC), VITA 42.3, AMC.1 Specifications, RoHS and NEBS	
Warranty	Two (2) years	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

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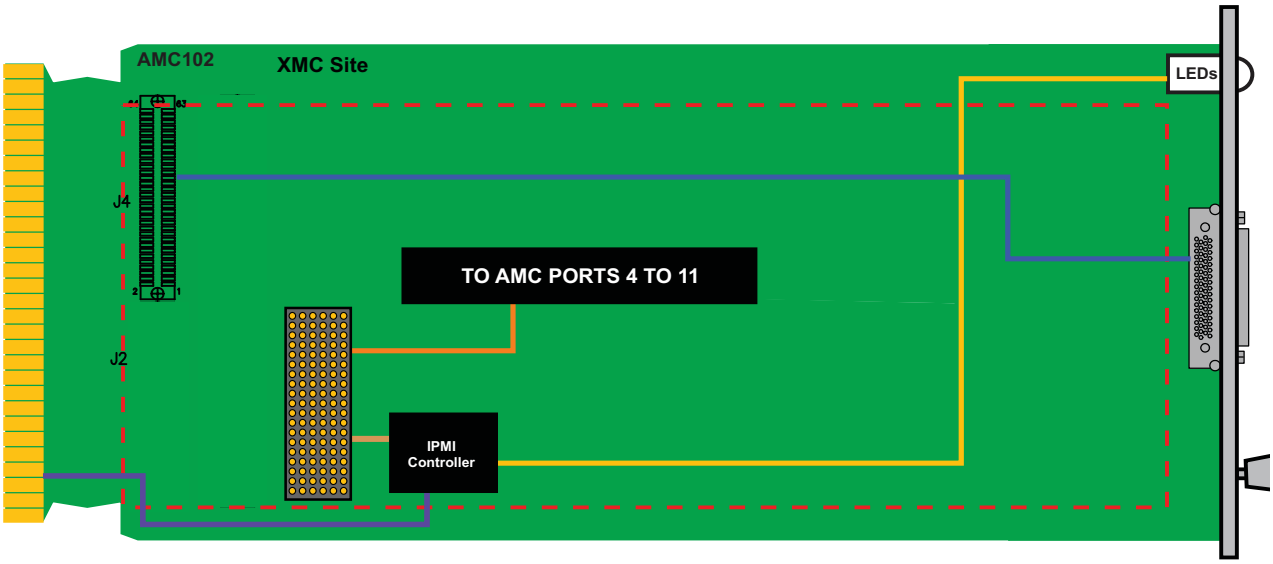

FIGURE 1. AMC102 Functional Block Diagram

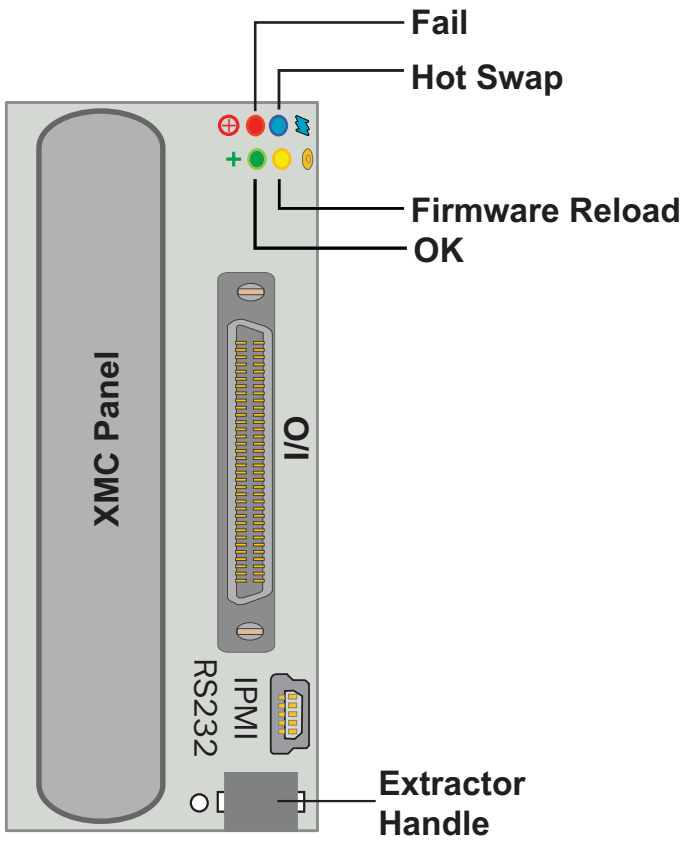

FIGURE 2. AMC102 Front Panel

ORDERING OPTIONS

AMC102 - A00 - 000 - 0HJ

A = XMC VPWR*

0 = +12V
1 = +5V

H = Operating Temp

1 = Commercial
2 = Industrial

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

* Per VITA specification the XMC VPWR can be powered from +5V or +12V. Please consult the XMC module that will be used.

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