AMC102

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AMC102 KEY

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.

AdvancedMC™

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[TM] and the AdvancedTCA[TM] logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	
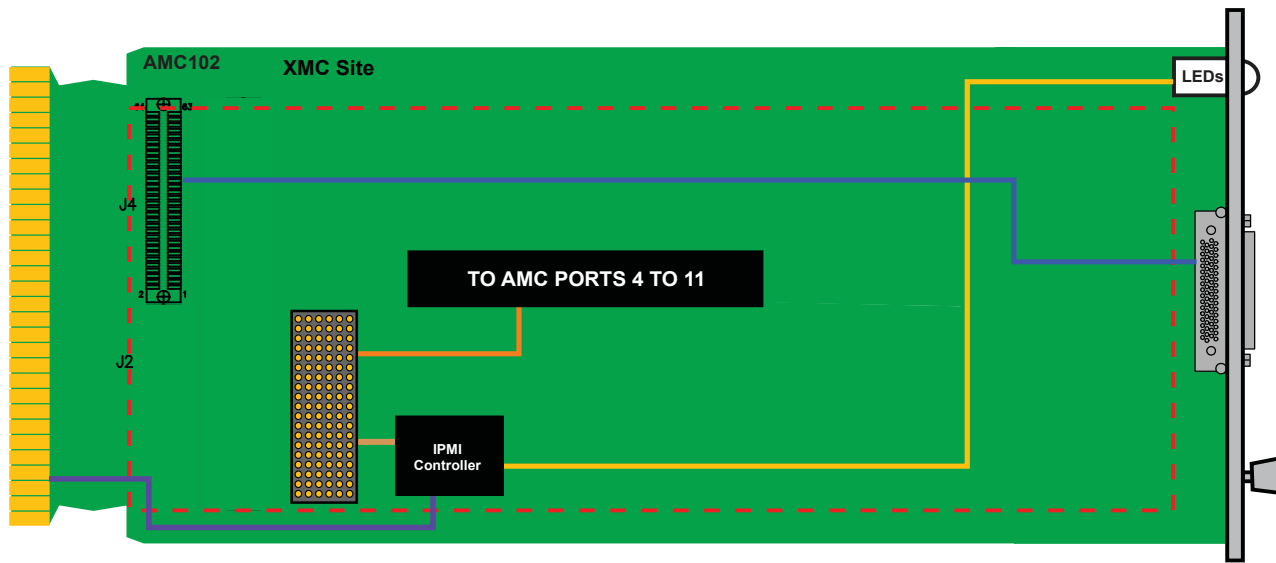
FIGURE 1. AMC102 Functional Block Diagram
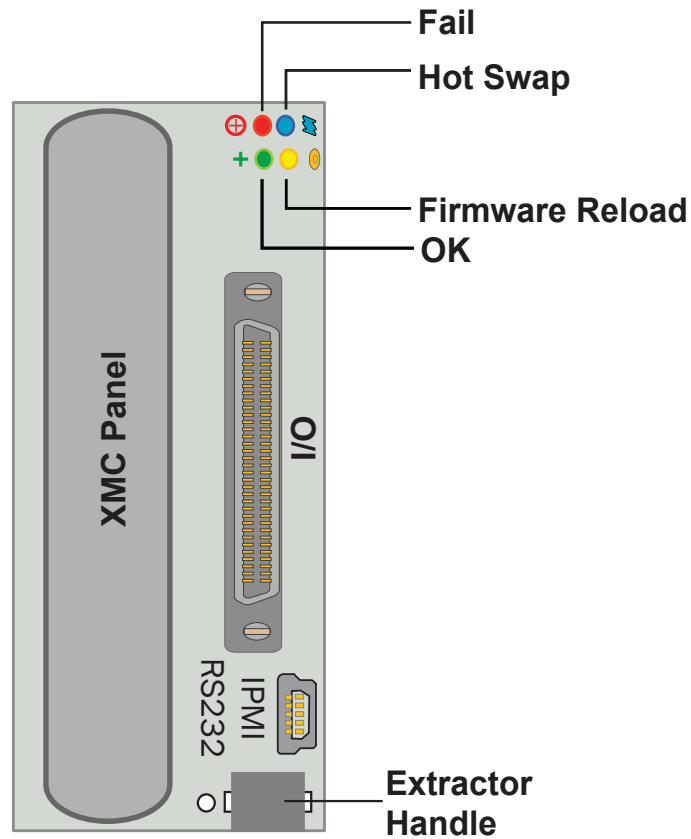
FIGURE 2. AMC102 Front Panel

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.