

AMC101



AMC101 KEY FEATURES

- Support for PMC/PrPMC and XMC modules
- 64-bit PCI-X @133MHz, with +3.3V PCI signaling compatible
- AMC.1 compliant
- PCIe x4 lanes
- Transparent or Non-Transparent operating modes
- PMC 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
- IEEE Std P1386.1-2001 (PMC) compliant
- ANSI/VITA 32-2003 (PrPMC) compliant
- ANSI/VITA 42.3 (XMC PCI Express)
- RoHS compliant

The AMC101 is a single-width, full-height module based on the AMC.1 Specification. This patented (Patent Pending) design allows a PMC/XMC module to fit on a single width AMC.

The PMC/PrPMC PCI-X bus runs at 133MHz with 64-bit wide bus (the module can auto-negotiate down to 33Mhz with 32-bit). 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 μ TCA Chassis to utilize the large numbers of PMC modules as well as XMC I/O modules that are available in the market. The AMC101 can be configured to run in non-transparent, transparent or root complex mode.

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

AdvancedMC™

AMC Carrier For PMC/PrPMC/XMC Modules

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 PMC/PrPMC/XMC modules
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	x4
Configuration		
Power	AMC101	3 Watts without PMC/PrPMC/XMC
	PMC/PrPMC/XMC Power	+3.3V @ 6A
		+5V @ 6A
		+12V @ 3A
		-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 x4 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.	

AMC Carrier For PMC/PrPMC/XMC Modules

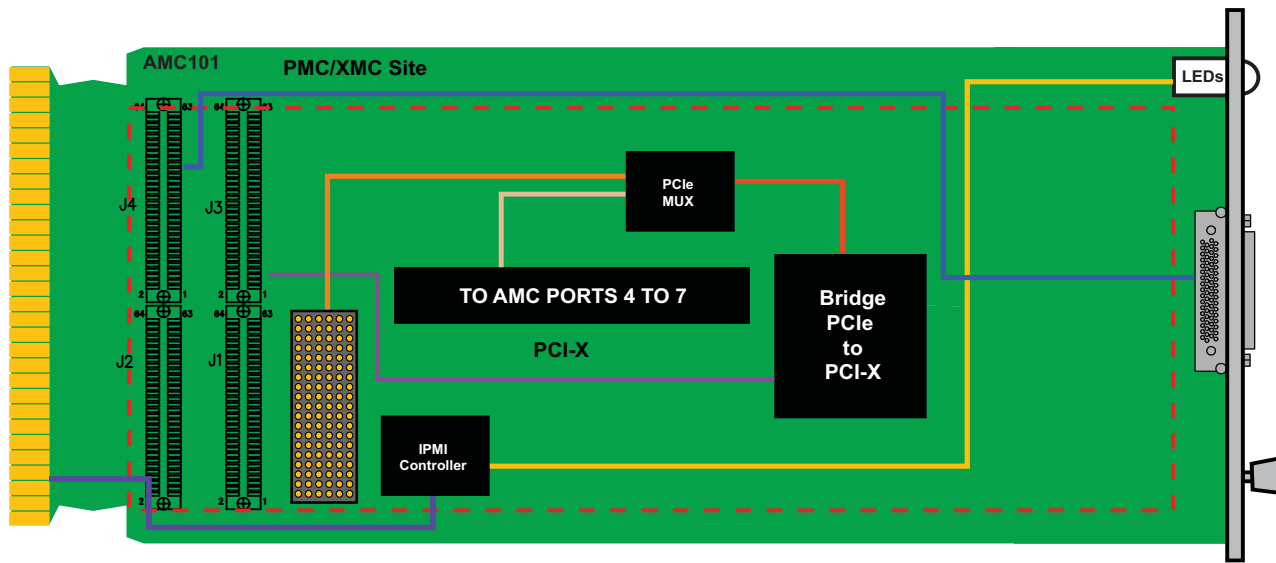


FIGURE 1. AMC101 Functional Block Diagram

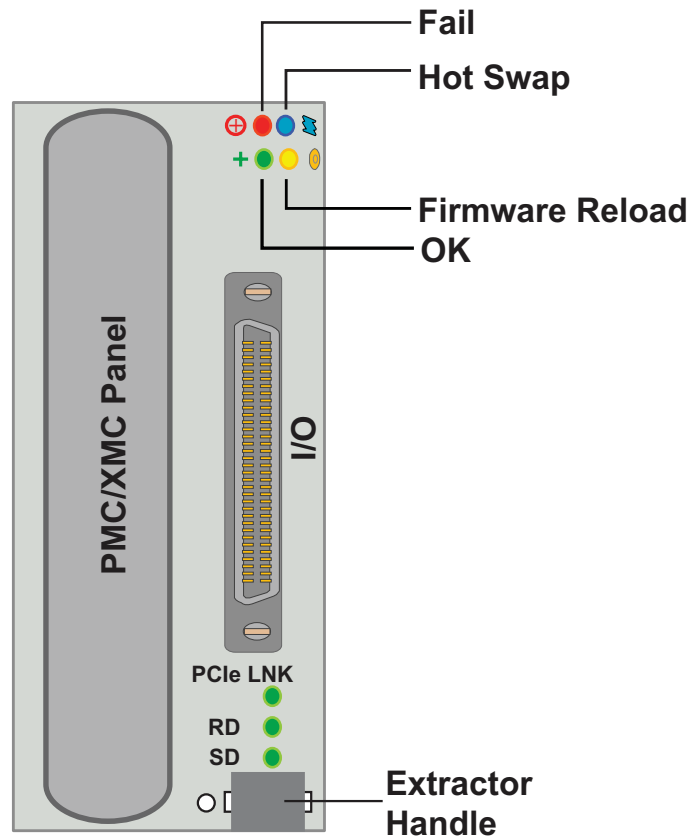


FIGURE 2. AMC101 Front Panel

AMC Carrier For PMC/PrPMC/XMC Modules

ORDERING OPTIONS

A = XMC VPWR*

- 0 = +12V
- 1 = +5V

AMC101 - A00 - 000 - OHJ

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.

