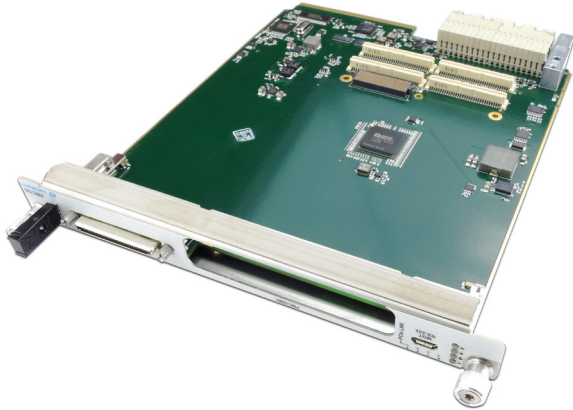


AMC Carrier for PMC/XMC Modules, MTCA.4 – AMC105

AMC Carrier for PMC/XMC



KEY FEATURES

- Support for PMC and XMC modules
- 64-bit PCI-X @ 133 MHz for the PMC
- PCIe x4 to the XMC
- AMC.1 compliant
- PCIe x4 lanes to the AMC
- PMC/XMC User I/O (J4 connector) routed to front panel and RTM
- Trig signals per the uTCA.4 are routed from Ports 17 to 20 (per SLAC specification to the J4)
- RoHS compliant
- IPMI 2.0 compliant

AdvancedMC™

Benefits of Choosing VadaTech

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC105 is a double module, mid-size (full-size optional) board based on the AMC.1 Specification. The AMC105 allows PMC/XMC to be installed in an AMC slot. The PMC PCI-X bus can run at 133MHz.

The PMC/XMC J4 connector is routed to the front panel of the AMC module as a standard option via the Mini-SCSI connector. Alternatively, a limited amount of I/O can be routed to the RTM (Zone 3) per the SLAC specification (contact VadaTech for details).

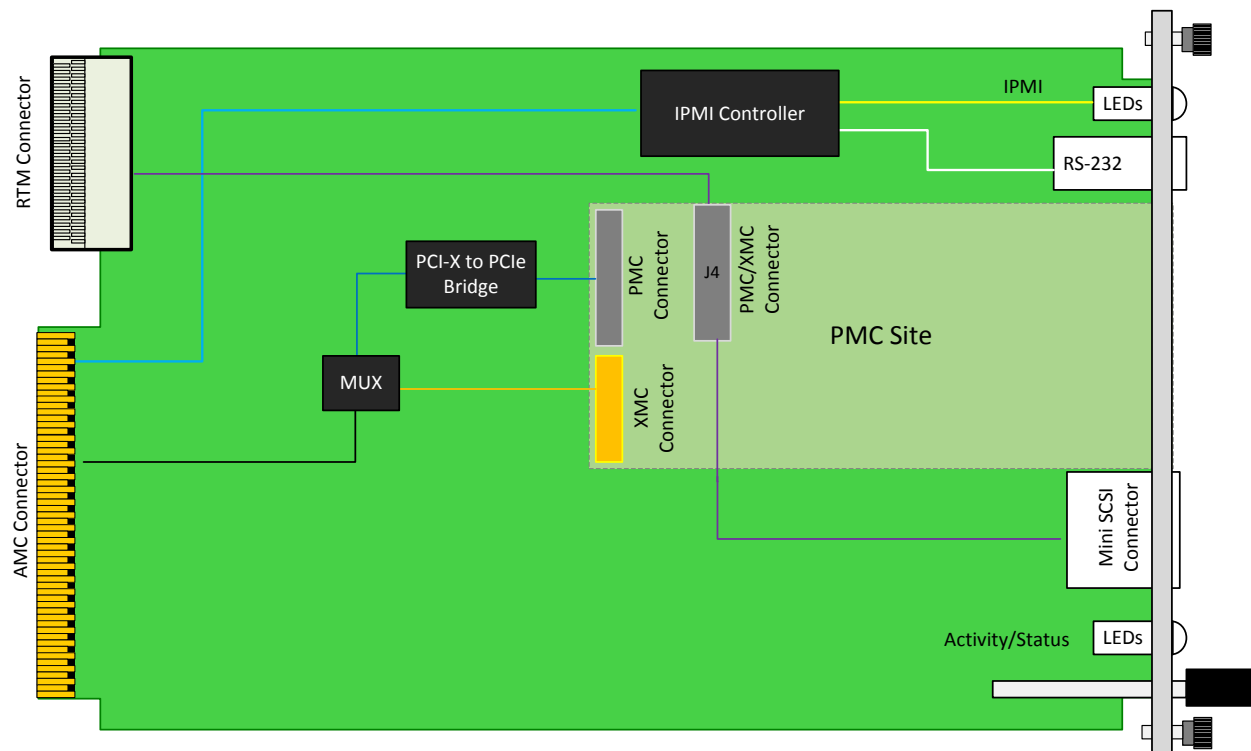
Ports 17-20 that are defined in the uTCA.4 spec are routed on board so that the Trig signals could be driven from the PMC/XMC to the backplane.

This modular approach allows a MicroTCA chassis to utilize the large numbers of PMC/XMC modules that are available in the market.

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.

BLOCK DIAGRAM



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 Carrier	AMC site carrier for PMC/XMC modules
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI version 2.0
PCIe	Lanes	x4
Configuration		
Power	AMC105	Application specific
Environmental	Temperature	Operating temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply), (See environmental spec sheet)
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s ² (1.0 G), 5 to 500Hz
	Shock	30Gs on each axis
Front Panel	Relative Humidity	5 to 95 per cent, non-condensing
	Interface Connectors	Mini SCSI Type Connector
	LEDs	IPMI management control
		Activity/Status LEDs
Software Support	Mechanical	Hot swap ejector handle
	Operating System	None
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

ORDERING OPTIONS

COMMON CONFIGURATIONS

AMC105 – A0C – 000 – 00J

A = J4 PMC/XMC User defined I/O

0 = All routed to the front panel (no RTM connector in Zone 3)
1 = Some of the I/O's are routed to the Zone 3 RTM of the AMC per SLAC Specification

C = Front Panel

0 = Reserved
1 = Reserved
2 = Mid-size (available when Option A = 0)
3 = Full-size (available when Option A = 0)
4 = Mid-size, MTCA.4 (captive screws)
5 = Full-size, MTCA.4 (captive screws))

J = Temperature Range and Coating

0 = Commercial, No coating
1 = Commercial, Humiseal 1A33 Polyurethane
2 = Commercial, Humiseal 1B31 Acrylic
3 = Industrial, No coating
4 = Industrial, Humiseal 1A33 Polyurethane
5 = Industrial, Humiseal 1B31 Acrylic
6 = Military, Humiseal 1A33 Polyurethane
7 = Military, Humiseal 1B31 Acrylic

RELATED PRODUCTS



VT899 Cube Chassis



FMC223 High Speed
FMC for DAC



UTC020 1000W Power
Module

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