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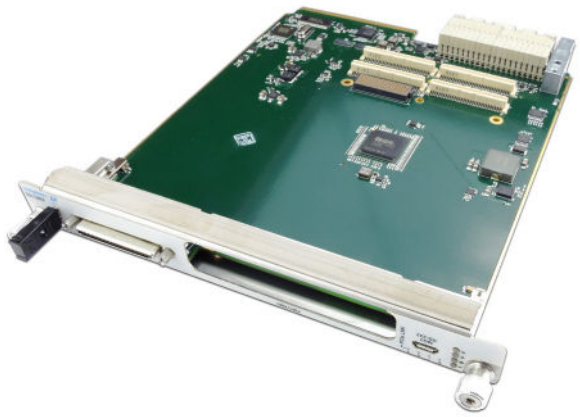
# AMC Carrier for PMC/XMC Modules, MTCA.4 – AMC105

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.

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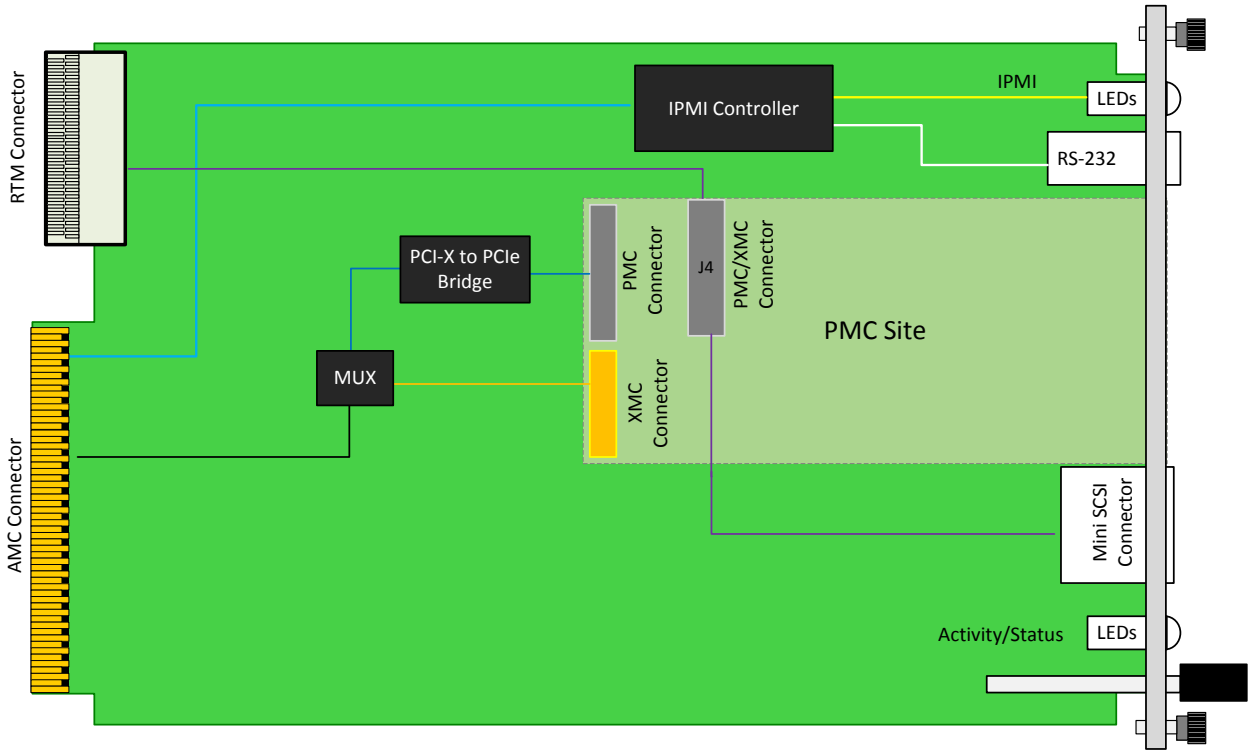
## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA 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 |
| | Relative Humidity | 5 to 95 per cent, non-condensing |
| **Front Panel** | Interface Connectors | Mini SCSI Type Connector |
| | LEDs | IPMI management control |
| | | Activity/Status LEDs |
| | Mechanical | Hot swap ejector handle |
| **Software Support** | 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 | |
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## ORDERING OPTIONS

## 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))

## COMMON CONFIGURATIONS

**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

## CONTACT US

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