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THE POWER OF VISION

AMC Carrier for PCIe Gen 3 Module – AMC104

AMC PCIe Gen 3 Carrier

(Photo shows the Carrier with a high end NVIDIA Graphic Module)

KEY FEATURES

- AMC PCIe Gen 3 carrier (x4 or x8)
- Double module, full-size
- Accept any standard PCIe edge style module (connector is x16)
- IPMI 2.0 compliant

Benefits of Choosing VadaTech

- Allows any high-end commercial PCIe Gen3 video card or other module to be utilized in a MicroTCA system
- Routing options for x4 or x8 to the backplane
- 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 AMC104 is a carrier for a standard PCIe Gen3/Gen2/Gen1 module with PCIe interface as x1, x2, x4, x8 or x16. It comes in a double module, full-size. The AMC104 routes PCIe lanes on the AMC ports 4-11. The AMC104 allows extra power to the PCIe module by having the external power connector on board.

The AMC104 is fully compliant to the AMC.0 specification. The AMC104 allows standard commercial PCIe Graphics or other I/O module to be incorporated into the MTCA chassis or ATCA Carriers.

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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

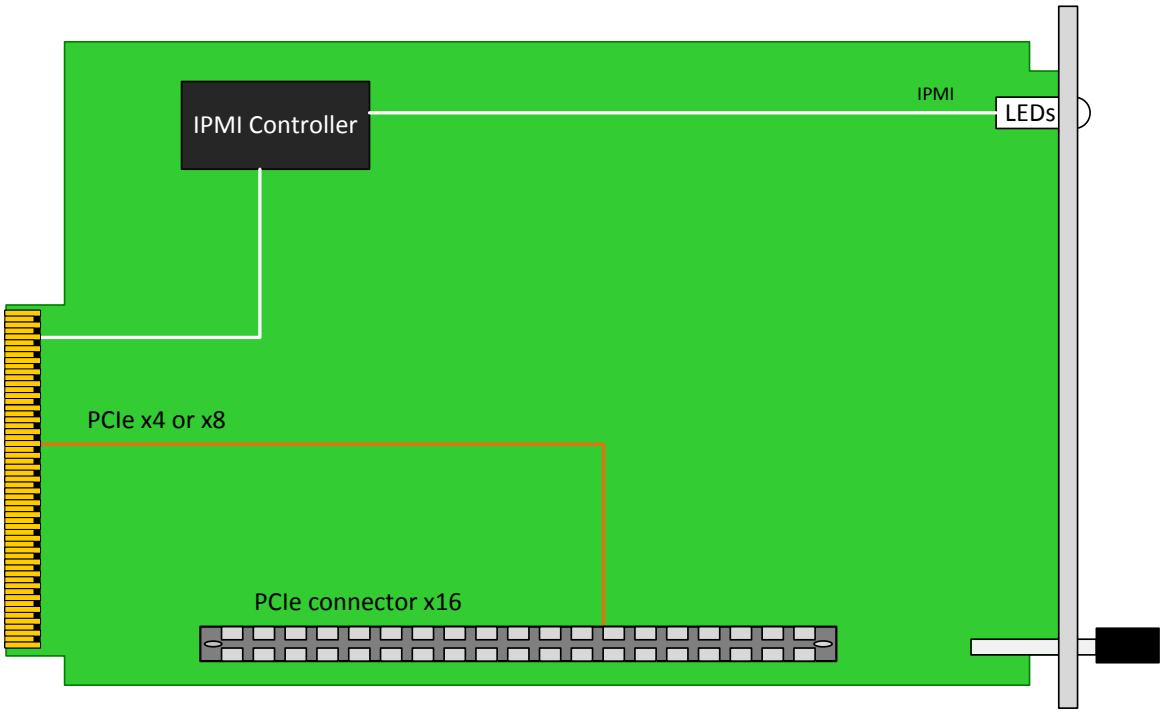

Figure 1: AMC104 Functional Block Diagram

SPECIFICATIONS

Architecture		
Physical	Dimensions	Double module, full-size
		Width: 5.85" (148.5 mm)
		Depth 7.11" (180.6 mm)
Type	AMC PCIe Carrier	PCIe Gen3 card carrier
		IPMI Controller
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI version 2.0
PCIe	Lanes	Dual x4 or x8
Configuration		
Power	AMC104	Carrier is ~3W (without the PCIe module installed) application specific
Environmental	Temperature	Operating Temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply), industrial and military versions also available. (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	Front panel PCIe interface
	LEDs	IPMI management control
	Ports	RS-232
	Mechanical	Hot swap ejector handle
Software Support	Operating System	N/A, consult PCIe card supplier
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

AMC104 – A0C – 000 – 00J

A = PCIe option
1 = PCIe on ports 4-7
2 = PCIe on ports 4-11

C = Front Panel
1 = Reserved
2 = Reserved
3 = Full-size
4 = Reserved
5 = Reserved
6 = Full-size, MTCA.1 (captive screw)

J = Temperature Range and Coating
0 = Commercial (–5° to +45° C), No coating
1 = Commercial (–5° to +45° C), Humiseal 1A33 Polyurethane
2 = Commercial (–5° to +45° C),Humiseal 1B31 Acrylic
3 = Industrial (–20° to +70° C), No coating
4 = Industrial (–20° to +70° C), Humiseal 1A33 Polyurethane
5 = Industrial (–20° to +70° C), Humiseal 1B31 Acrylic
6 = Military (–40° to +85° C), Humiseal 1A33 Polyurethane*
7 = Military (–40° to +85° C), Humiseal 1B31 Acrylic*

*Edge of module for conduction-cooled boards

RELATED PRODUCTS

VT899 Cube Chassis

FMC223 High Speed FMC for DAC

AMC740 Tilera Processor AMC

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