PCIe Carrier for AMC Modules

PCI101

KEY FEATURES

- Supports one AMC.1, AMC.2 or AMC.3
- Option to put in double width AMC modules
- PCIe x4 lanes
- Optional VT001 IPMI Management Controller
- AMC.2 GbE to RJ-45
- AMC.3 to SATA headers
- On board 100Mhz HCSL Clock for FCLKA
- MLVDS drivers for TCLKA, TCLKB, TCLKC and TCLKD via SMB connectors as input or output
- IPMI 2.0 compliant
- Connectors to access the I^2C bus
- Can run standalone without the host PC
- RoHS compliant

The PCI101 allows testing of AMC.1, AMC.2 and AMC.3 modules in a PC environment during development and manufacturing; reducing the costs associated with maintaining different platforms.

The PCI101 is a PCIe edge style carrier with x4 lanes. The AMC.1 module connects directly to the host PC PCIe bus. The AMC.2 module GbE ports are routed to RJ-45s. The AMC.3 differential pairs are routed to two SATA connectors. The PCI101 is available with a socket for an optional VT001 IPMI controller which can test the AMC IPMI management functionality. The Dual I^2C bus connectors allow connecting any I^2C bus to any other I^2C bus as well as being able to debug and monitor the I^2C bus traffic.

Provides two current sense resistors to measure the payload power as well as the management power of the AMC.

The PCI101 can be powered on the bench without the host PC.

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

AdvancedMC™

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SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Full size PCIe bus format
		Width: 8.865 in. (225 mm)
		Depth: 9.5 in. (241 mm)
Product	**PCIe Carrier**	Carrier for AMCs
Standards		
AMC	**Type**	AMC.1, AMC.2 and AMC.3
PCIe	**Lanes**	x4
Configuration		
Power	**PCI101**	4 W with the VT001 installed
Environmental	**Temperature**	Operating Temperature: 0° to 65° C
		Storage Temperature: -40° to +90° C
	Relative Humidity	5 to 95 percent, non-condensing
Interface Connectors	**Style**	AMC B
	AMC.1	To PCIe edge
	AMC.2	To RJ-45 (through transceiver)
	AMC.3	To two SATA connectors
	Clocks	FCLKA, TCLKA, TCLKB, TCLKC and TCLKD
	IPMI Controller	VT001
Other		
MTBF	MIL Spec 217-F >205,000 Hrs. (without the Fan)	
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	RoHS	
Warranty	Two (2) years	
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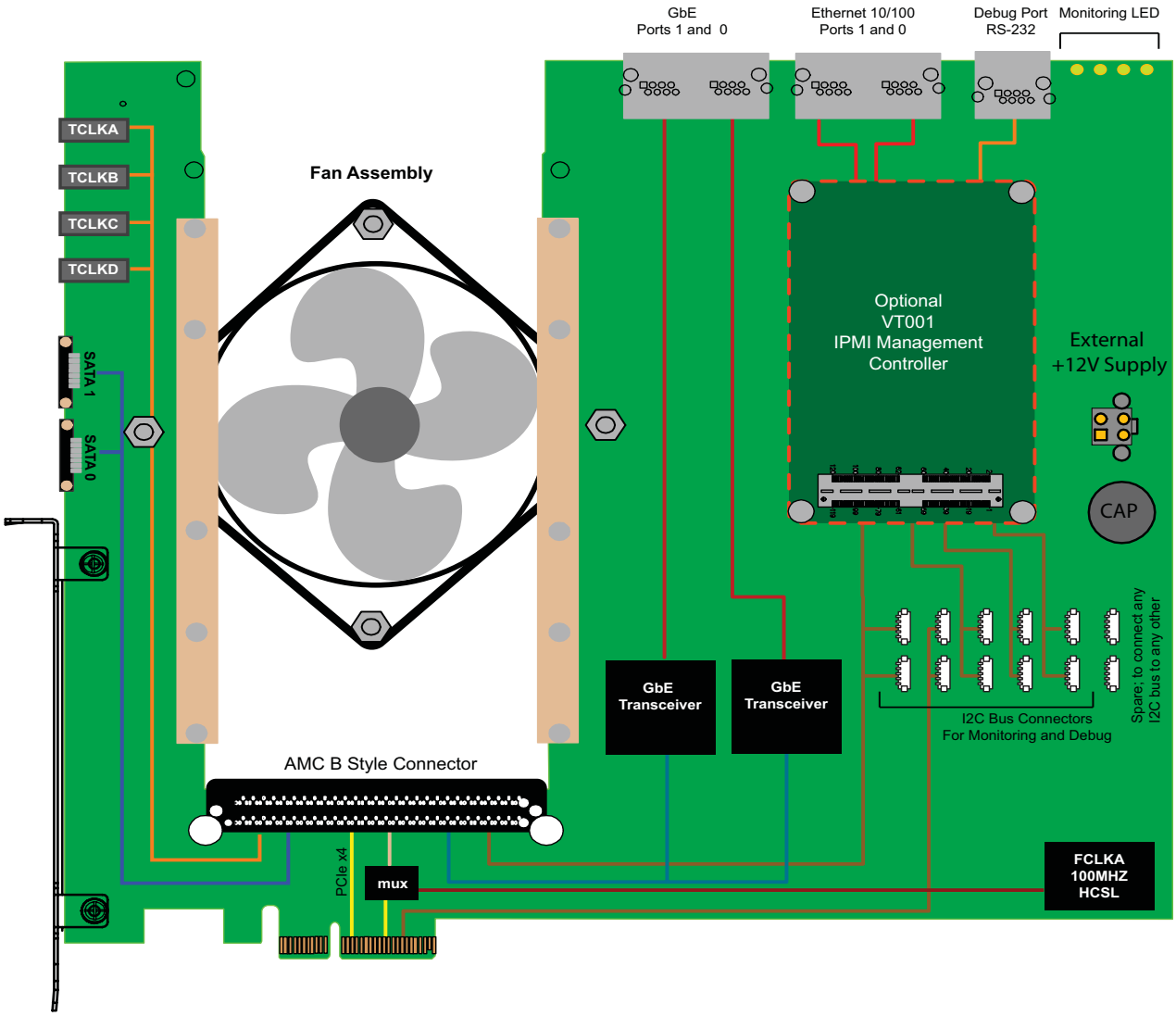

FIGURE 1. PCI101 Functional Block Diagram

ORDERING OPTIONS

PCI101 - A00 - 000 - 00J

A = IPMI Controller

0 = None
1 = With the VT001

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

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