

KEY FEATURES

- PCIe x4 lanes
- PCI-X @ 133MHz
- 96-pin DIN connector mapping per VITA-35
- One PMC or PrPMC site
- IEEE 1386 compliant
- VITA-35 compliant
- VITA-39 compliant
- RoHS compliant
- OS support for:
 - Linux
 - Windows
 - Solaris
 - VxWorks

The PCI104 is a PCIe carrier for PCI Mezzanine Cards (PMC) or Processor PCI Mezzanine Cards (PrPMC). The PCI104 carrier allows simplified testing of PMC/PrPMCs and their associated PMC I/O Modules (PIMs) by using a PC environment during board development or deployment. The PCI104 can also reduce the costs of manufacturing PMC/PrPMCs by allowing manufacturers to use off-the-shelf PCs for functional testing.

The PCI104 converts the PCIe x4 edge connection to PCI-X via a PCIe to PCI-X bridge. The trace lengths to the PMC/PrPMC are kept to a minimum so the PMC/PrPMC can run with a 133MHz PCI-X clock speed. The J4 connector of the installed PMC/PrPMC is routed to a 96-pin DIN connector per the VITA-35 specification. The PCIe to PCI-X bridge can run in either transparent or non-transparent mode and can also operate in forward or reverse mode. The PCI104 has a fan mounted on the board to cool the PMC/PrPMC. The fan can easily be removed for testing and probing of hosted card.

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

PCIe Carrier for PMC and PrPMC

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 4.2 in. (107 mm)
		Depth: 6.6 in. (156 mm)
Product	PCIe Expansion	Carrier for one PMC or PrPMC
Standards		
PCIe	Lanes	x4
PCI	PCI-X	PCI-x 64-bit @ 133MHz
Configuration		
Power	PCI104	3.5 W in addition to what the PMC/PrPMC requires
		Up to 25 W is available for the PMC/PrPMC
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
Interface Connector		96-Pin DIN connector
Conformal Coating		Humiseal 1A33 Polyurethane
		Humiseal 1B31 Acrylic
Other		
MTBF		MIL Spec 217-F > 275,000 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
Trademarks and Logos		The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners.

PCIe Carrier for PMC and PrPMC

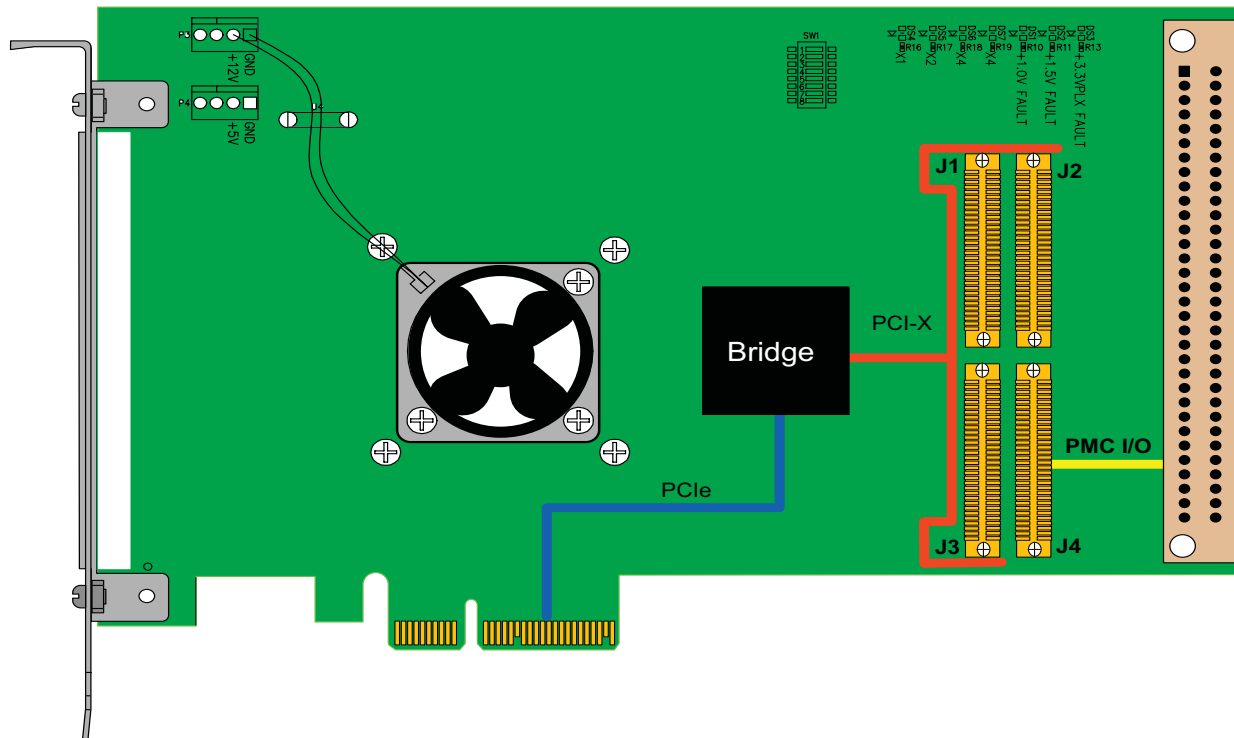


FIGURE 1. PCI104 Functional Block Diagram

ORDERING OPTIONS

PCI104 - 000 - 000 - 00J

J = Conformal Coating

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

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