PCIE Module for PCIe Bus Expansion

PCI113

THE POWER OF VISION

KEY FEATURES

- PCIe x8 lanes Gen2
- Upstream/Downstream orientation
- Dual Fiber or copper option utilizing QSFP+ connectors (mix of Fiber/Copper across the two ports is allowed)
- Fully IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

PCI113 is VadaTech second generation PCIe expansion module. The PCI113 is a high-speed 20Gbps bridge from the host PCIe bus to VadaTech's carrier and Rear Transition Module (RTM) products such as the ATC104/114/118/117/119, ART114, µTCA chassis, etc.. The different carriers host different I/O modules such as PMC/PrPMC, AMC, PCI-X and PCIe edge modules. This concept allows any of the available I/O modules in these standard form factors to be integrated quickly and easily into an AdvancedTCA or µTCA subsystem.

The PCI113 allows expansion among multiple µTCA chassis or expansion into other chassis that are not ATCA or µTCA based.

The PCI113 is a single-width PCIE based on the PCISIG specification. The PCI113 provides a PCIe x4 link in fiber/copper via front panel QSFP. The dual front I/O allows expansion into two separate system independently. The upstream port must not have spread spectrum PCIe clock enabled.

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

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SPECIFICATIONS

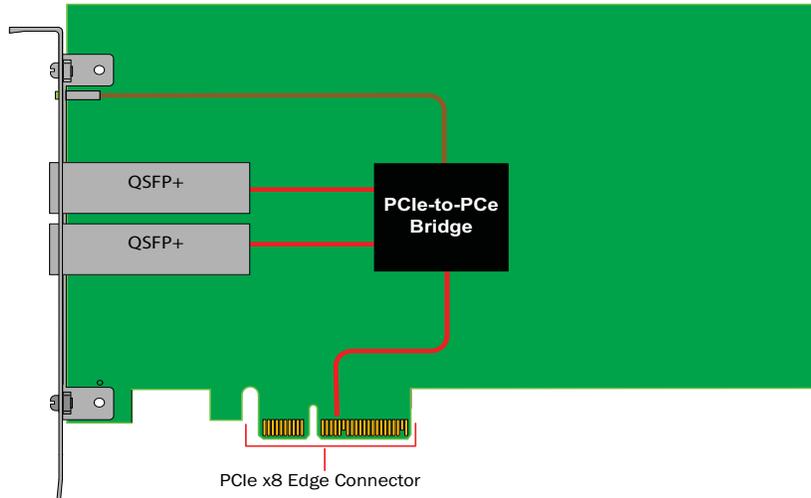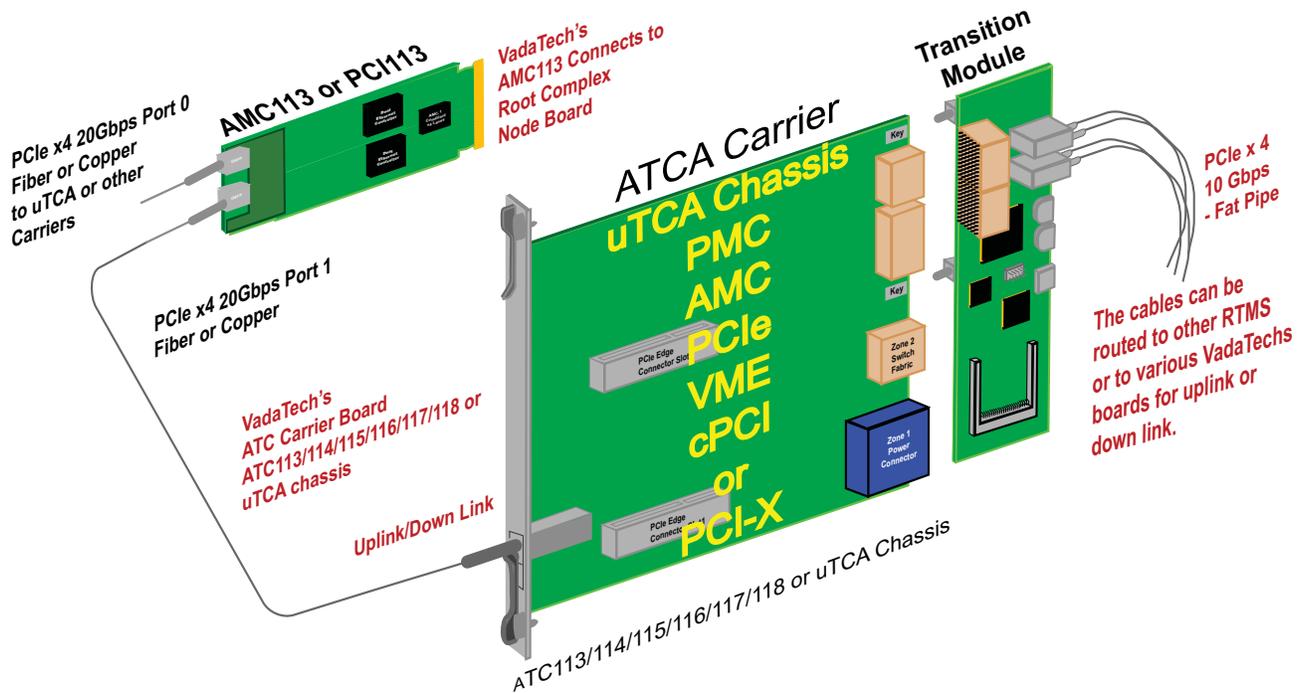| Architecture		
Physical	**Dimensions**	Width: 4.2 in. (107 mm)
		Depth: 7.8 in. (181.5 mm)
Type	**PCI Expansion Module**	PCI module for I/O bus expansion
Standards		
PCIe	**Lanes**	x8
Configuration		
Power	**Copper QSFP cable**	4W maximum
	Fiber QSFP cable	7W maximum
Environmental	**Temperature**	Operating Temperature: 0° to 65° C
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**Interface Connectors**	Dual QSFP+
		RS-232
	LEDs	Link
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Spec 217-F >TBD	
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 and NEBS	
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. AdvancedMC^{TM} and the AdvancedTCA^{TM} logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	
Notes	The Half-Height front panel is a patent-pending design. Contact your Sales representative for more information.	

FIGURE 2. An Example of using the PCI113 with the PCIe up/down stream ports

ORDERING OPTIONS

PCI113 - A00 - 000 - 0HJ

A = QSFP+ Transceiver

0 = None
1 = Single QSFP+ Transceiver installed
2 = Dual QSFP+ Transceiver installed

H = Operating Temp

0 = Commercial (0° to +65°)
1 = Industrial (-20° to +70°)
2 = Military (--40° to +80°)

J = Conformal Coating

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

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