ATCA Carrier for Two PCI-X Modules

ATC108

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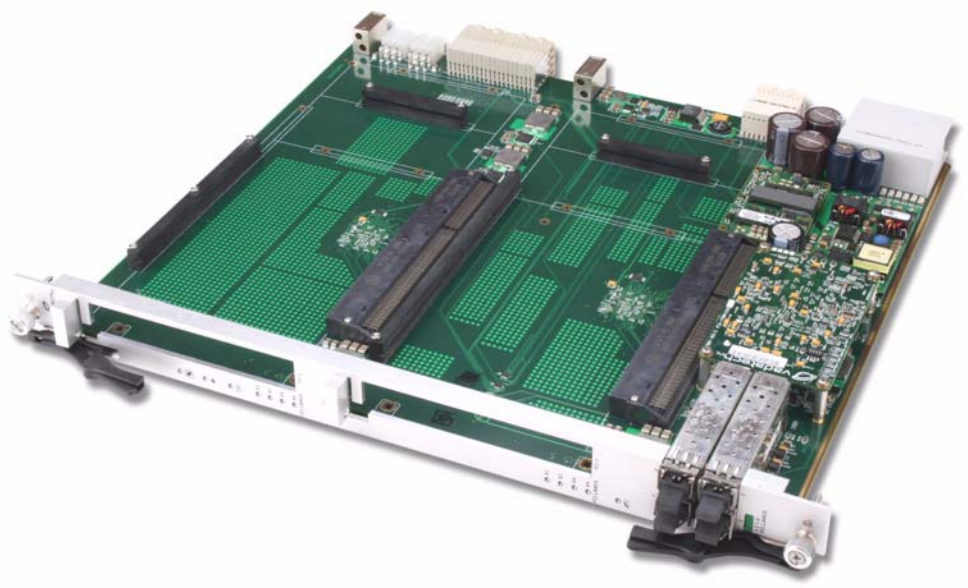

KEY FEATURES

- AdvancedTCA 3.0 Release 2.0 compliant
- Supports two PCI-X edge style cards
- 64-bit @ 133MHz
- Dedicated PCI-X bus for each slot
- PCIe up/downstream to ATC103/104/105/106/107/108, PCI103 or AMC103 via the front or rear
- Adjustable hold down brackets
- IPMI Version 2.0 compliant
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks

The ATC108 is an Advanced Telecom Computing Architecture (AdvancedTCA) carrier which allows for the integration of two PCI-X cards into the AdvancedTCA environment. The two PCI-X slots are independent and can run at different speeds. The ATC108 has a PCIe up/downport to interface to other Blades or VadaTech products, such as the ATC103/104/105/106/107/108, PCI103 or AMC103. This modular approach allows widely available PCI-X form factor boards to be integrated into an ATCA chassis.

The ATC108 can be configured as a Shelf Manager or a Node board. As a Shelf Manger, the ATC108 eliminates the need for other shelf managers which reduces the total system cost. The shelf manager implements IPMI management, FRU management, and shelf environment management for power, thermal, E-keying, etc.

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

AdvancedTCA®

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ATCA Carrier for Two PCI-X Modules

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 12.687in. (322.25 mm)
		Depth: 11.024 in. (280 mm)
Type	ATCA Carrier	Two PCI-X slots, dedicated PCI-X bus for each slot
Standard		
PCI-X	Type	64-bit @ 133MHz
PCIe	Lanes	x16
PICMG	ATCA	PICMG 3.0 R2.0
Module Management	IPMI	IPMI Version 2.0
Configuration		
Power	ATC108	10W with no PCI-X cards installed
		Up to 150 watts is available for the PCI-X cards
Environmental	Temperature	Operating Temperature: 0° to 60° 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
Expansion	PCIe	Expansion to other ATC103/104/105/106/107/108, AMC103 or the PCI103
Rear I/O	Zone Three**	PCIe x4 lanes are routed to the rear for expandability
		PCIe Lane Good LEDs
		IPMI Controller (VadaTech VT001 product) Debug port
Front Panel	Interface Connectors	Four front panel copper or fiber SFP connectors for PCIe up/downstream
	LEDs	IPMI Management Control
		PCIe Lane Good
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Spec 217-F@ 158,000 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	
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. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

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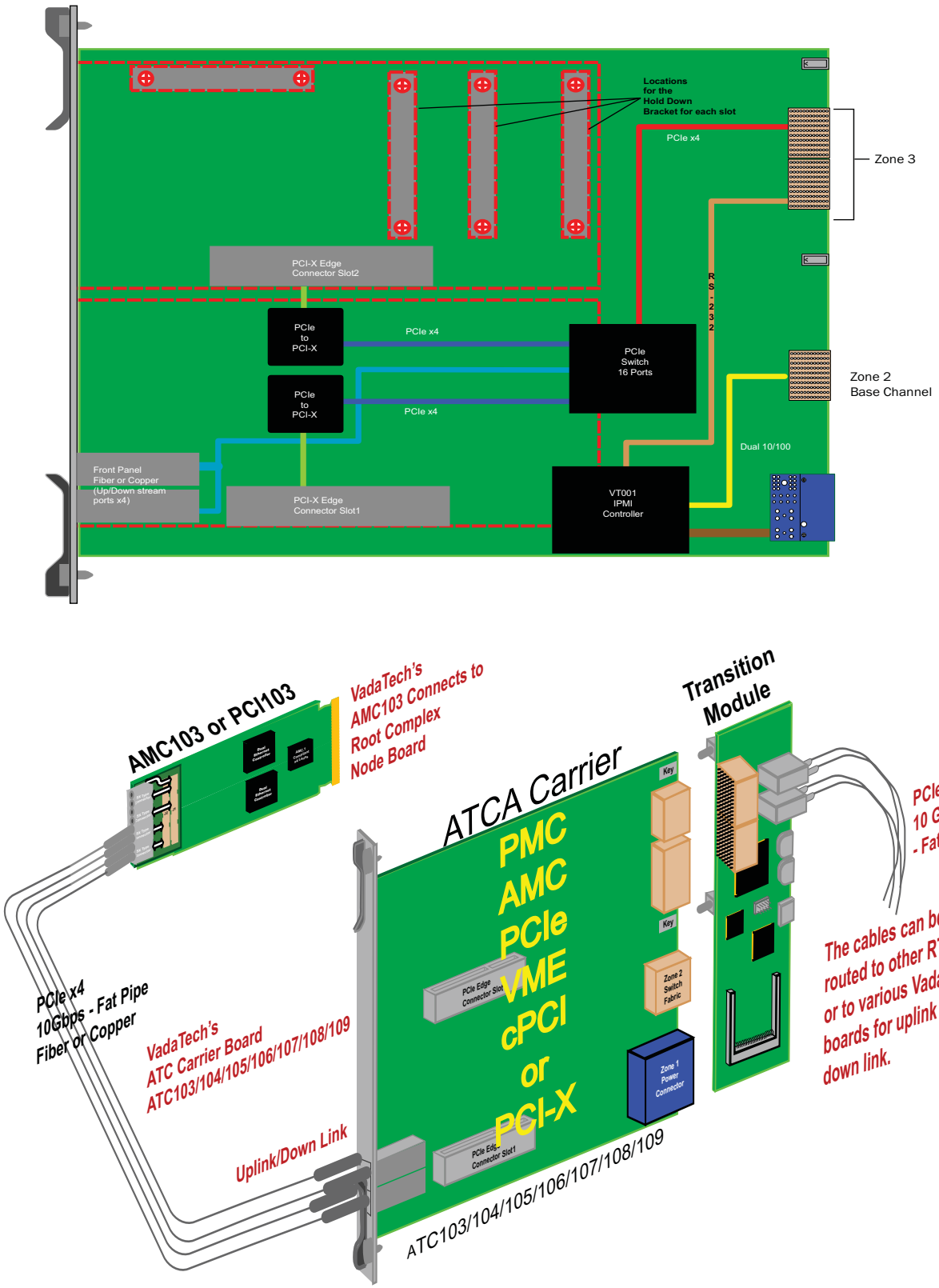
FIGURE 1. ATC108 Functional Block Diagram and typical application (the module could run standalone)



ORDERING OPTIONS

ATC108 - AB0 - D00 - 00J

A = Front Panel PCIe Up/Downstream

0 = No load
1 = Fiber LC/SX transceivers (850 nm)
2 = Fiber LC/LX transceivers (1310 nm)
3 = Copper
4 = Reserved

D = Upstream Port

0 = Front fiber
1 = Rear fiber
2 = Rear copper
3 = PCI-X slot 1
4 = PCI-X slot 2
5 = Front copper

J = Conformal Coating

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

B = Management controller*

0 = Node board
1 = Shelf Manager

*The ATC108 can be purchased as either a Shelf Manager or Node board (contact your Sales representative for information).

**Vadatech can design custom Rear Transition Modules (RTM) for this product or any ATCA carrier board with a minimum order and no NRE.

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