ATC107

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KEY FEATURES

- AdvancedTCA 3.0 Release 2.0 compliant
- PICMG 2.16 (ANSI/VITA 31.1)
- PCI-X @ 133MHz
- System Controller/Host or Slave/Agent
- Shelf Manager or Node board
- Standalone or PCIe up/downstream to other ATC103/104/105/ 106/107/108/AMC103 or the PCI103 carrier boards via the rear
- PCIe up/downstream via fiber or copper
- IPMI Version 2.0 compliant
- RoHS compliant
- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

The ATC107 is an Advanced Telecom Computing Architecture (AdvancedTCA) carrier which allows for the integration of a CompactPCI board into the AdvancedTCA environment. The ATC107 provides a PCI-X interface to the CompactPCI board which can operate at 133MHz. The ATC107 allows the CompactPCI board to be a Master or Slave. The ATC107 has a PCIe up/downstream port to interface to other blades or other VadaTech products, such as the ATC103/104/105/106/107/108/109, PCI103 and AMC103. This modular approach allows widely available cPCI form factor boards to be integrated into an ATCA chassis.

The ATC107 can be configured as a Shelf Manager or a Node board. As a Shelf Manger, the ATC107 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).

Advanced TCA®

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 12.69 in. (322.25 mm)
		Depth: 11.02 in. (280 mm)
Type	ATCA Carrier	CompactPCI board
Standard		
CompactPCI	Type	PICMG 2.16 (ANSI/VITA 31.1)
Module Management	IPMI	IPMI Version 2.0
PICMG	ATCA	PICMG 3.0 R2.0
Configuration		
Power	ATC107	6W without cPCI board
		Up to 150 watts is available for the cPCI board
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 another ATC107 or to AMC103, ATC104, ATC105, ATC106, ATC108, ATC109 or the PCI103 via Zone 3
Rear I/O	Zone Three	CompactPCI P5 connector routes to Zone 3
		PCIe x4 routed to the rear for expandability
	Zone Two	P3 connector of the cPCI to Zone 2 Base channel
Front Panel	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 > 220,000 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[TM] and the AdvancedMC[TM] logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	
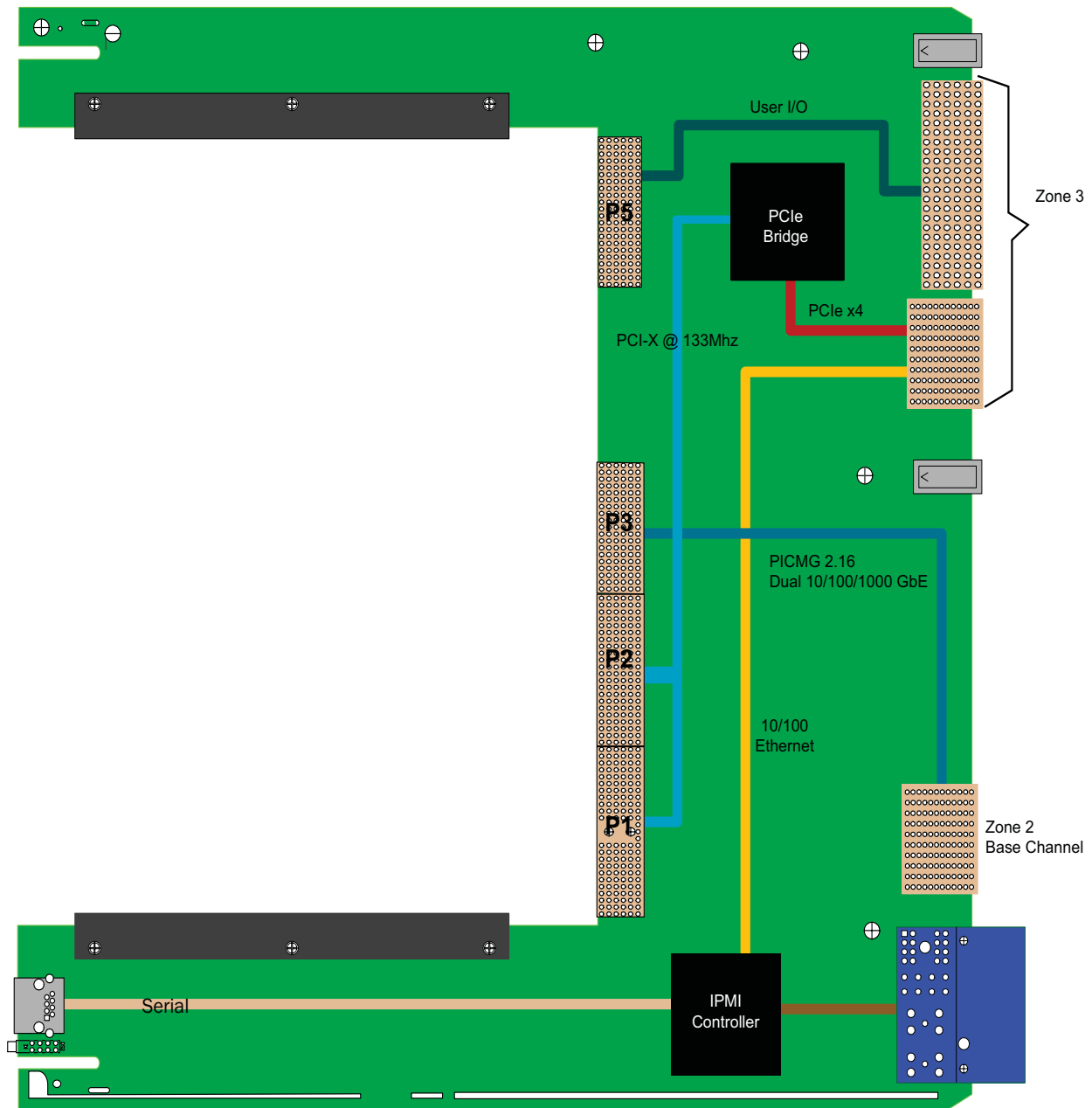
FIGURE 1. ATC107 Functional Block Diagram

FIGURE 2: Typical application (the module could run standalone)†
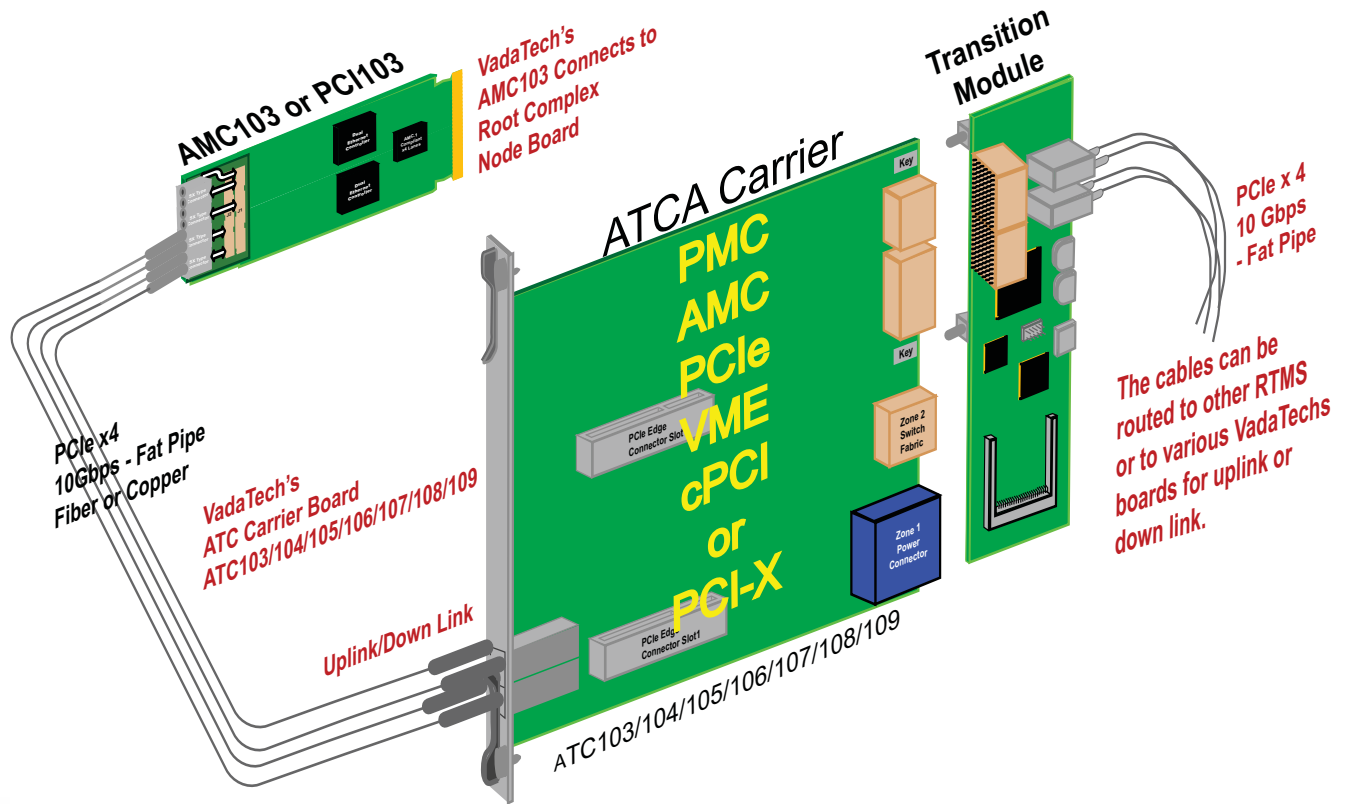
†Note: The ATC107 PCIe up/downstream is only available via the RTM

ORDERING OPTIONS

ATC107 - 0B0 - 000 - 00J

B = Configuration*

    0 = Node board
    1 = Shelf Manager

J = Conformal Coating

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

*The ATC107 can be purchased as either a Shelf Manager or a 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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