ATCA Carrier for Two PCI-X Modules

ATC118

KEY FEATURES

- AdvancedTCA 3.0 Release 2.0 compliant
- Supports two PCI-X edge style cards
- 64-bit @ 133 Mhz
- Dedicated PCI-X bus for each slot
- PCIe up/downstream to ATC114/ATC115/ATC/ATC117/118, PCI113 or AMC113 via the front or rear
- Adjustable hold down brackets to hold the PCI module down
- PCIe Front panel up/down stream via QSFP (Copper or Fiber cable)
- IPMI Version 2.0 compliant
- RoHS compliant
- OS Independent

The ATC118 is the VadaTech next generation 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 ATC118 has a PCIe up/down port to interface to other Blades or VadaTech products, such as the ATC114/ATC115/ATC116/118/119, PCI113 or AMC113. This modular approach allows widely available PCI-X form factor boards to be integrated into an ATCA chassis.

The IMPI management implements FRU management, thermal, E-keying, etc.

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	48 Lanes
PICMG	ATCA	PICMG 3.0 R2.0
Module Management	IPMI	IPMI Version 2.0
Configuration		
Power	ATC118	10W with no PCI-X cards installed
		Up to 150 watts is available for the PCI 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 ATC114/118 AMC113 or the PCI113
Front Panel	Interface Connectors	Front panel QSFP (Fiber or Copper) connectors for PCIe up/downstream
	LEDs	IPMI Management Controller
		PCIe Lane Good
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	OS Independent
Other		
MTBF	MIL Handbook 217-F@ TBD 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. ATC118 Functional Block Diagram and typical application (the module could run standalone)
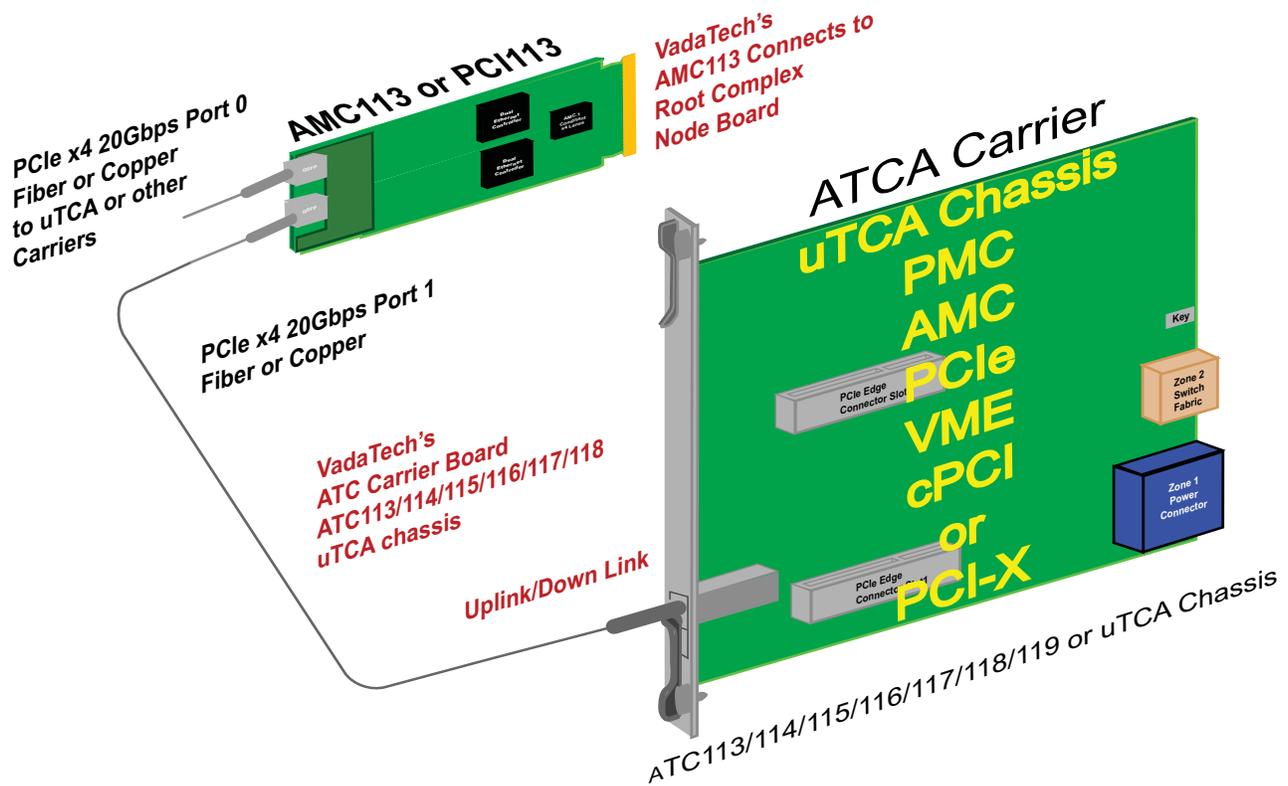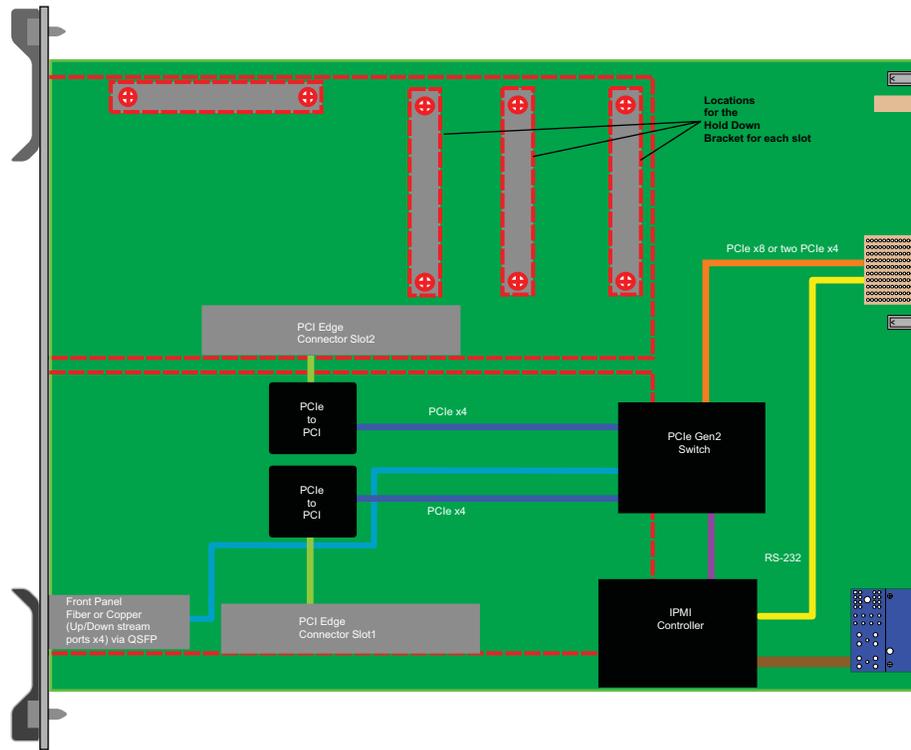
ORDERING OPTIONS

ATC118 - 000 - 000 - G0J

G = Customer specific	J = Conformal Coating
0 = None	0 = None
1 = Reserved	1 = Humiseal 1A33 Polyurethane
2 = Reserved	2 = Humiseal 1B31 Acrylic

Document No_____ Date:. January 2009, Pass two