

## KEY FEATURES

- Quad GbE via SFP
- Dual InfiniBand 40Gb via QSFP+
- PCIe x8 via I-Pass
- Host serial
- USB Fiber and Copper
- IPMI Version 2.0 compliant
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks

The ART132 is an I/O expansion ATCA Rear Transition Module (ARTM) that provides PCIe, GbE, InfiniBand, USB and Management I/O for the front blade. The module is designed to mate with Emerson front blades such as ATCA-7360 and ATCA-7365.

The single PCIe x8 port from zone three connector is routed to the I-Pass connector. This allows the PCIe from the host to be expanded to other modules.

The module has quad GbE MAC/PHY which mates to the host via PCIe x4 on the zone 3 connector and provides quad SFP to the rear. Further, the module has a dual port InfiniBand HCA which mates to the host via PCIe x4 and provides dual QSFP+ to the rear.

The USB port from the zone 3 connector feeds into an on-board USB HUB and is converted to triple LC fiber ports and dual copper ports.

The ART132 also provides the management RS-232 port as well as the host RS-232 port to the rear.

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

**Advanced TCA®**

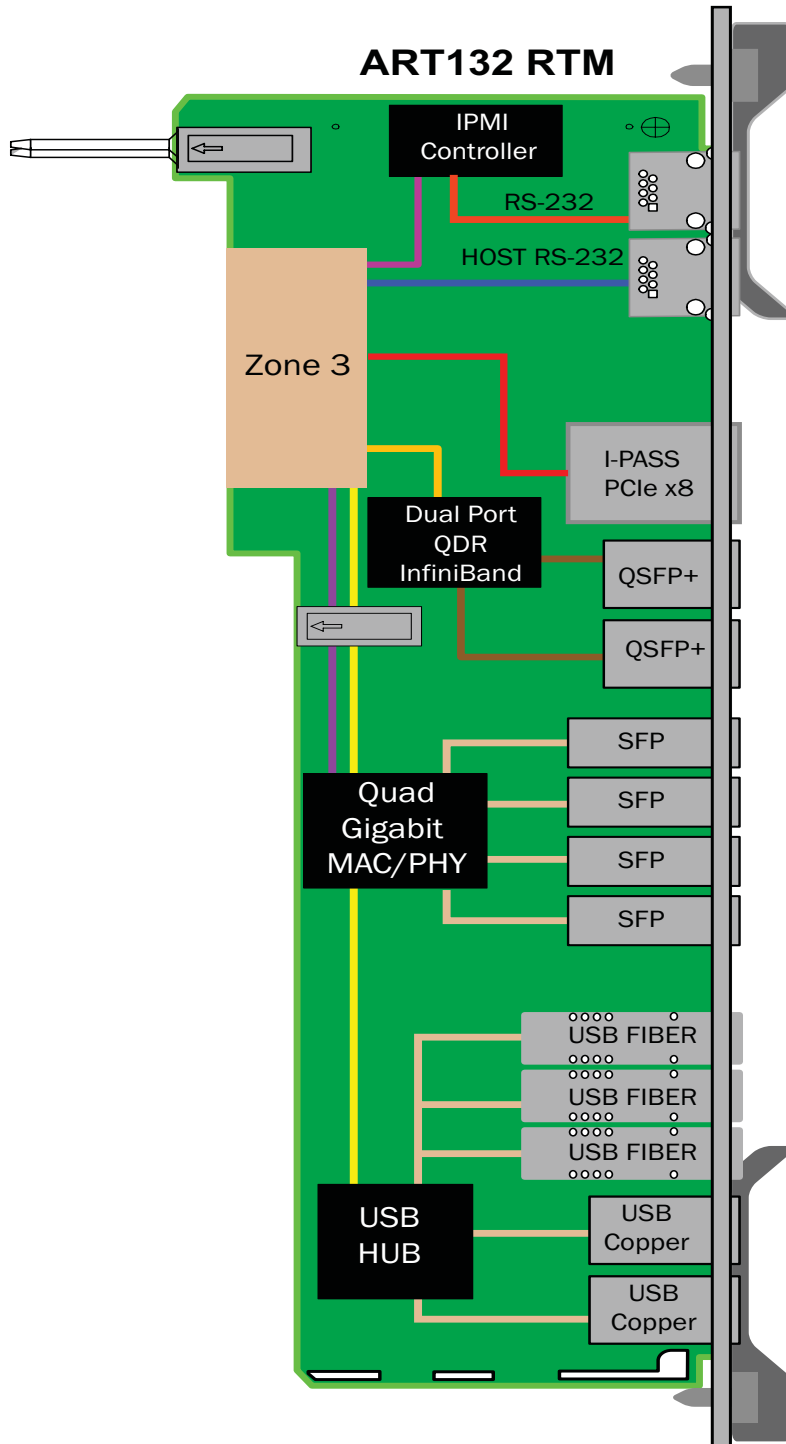
# ATCA Rear Transition Module

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 12.69 in. (322.25 mm)
		Depth: 11.02 in. (280 mm)
Type	ATCA Rear Transition	I/O module for Emerson Blades
Standard		
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	Dual x4 and single x8
PICMG	ATCA	PICMG 3.0 R2.0
Configuration		
Power	ART132	15W
Environmental	Temperature	Operating Temperature: 0° to 60° C (Air flow requirement is to be greater than 400 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
Rear I/O	Zone Three	Singe PCIe x8 via I-Pass
		Quad GbE via SFP
		Dual QDR InfiniBand via QSFP+
		Host RS-232
		IPMI Debug port
		Management LED
		Hot Swap Ejector Handle
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Hand Book 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	
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# ATCA Rear Transition Module

**FIGURE 1.** ART132 Functional Block Diagram and a typical application



## ORDERING OPTIONS

### ART132 - ABC - DE0 - OHJ

**A = Number of Fiber SX Transceivers\***

0 = None  
X = Number of Transceivers

**B = Number of Fiber LX Transceivers\***

0 = None  
X = Number of Transceivers

**C = Number of Copper Transceivers\***

0 = None  
X = Number of Transceivers

**D = QSFP+ Transceivers**

0 = None  
1 = Included

**H = Operating Temp**

0 = Commercial  
1 = Industrial

**J = Conformal Coating**

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

\*Total number of option A, B, and C can not be more then 4 (for the 4 SFP cages)

