ART131

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KEY FEATURES

- Zone three dual PCIe x8 to I-Pass connectors
- Managed Layer two GbE switch
- 8 GbE 10/100/1000 copper ports
- Quad GbE via SFP
- Zone three dual GbE to the Switch Fabric
- Zone three dual 10GbE with SFP+
- IPMI RS-232 port
- IPMI Version 2.0 compliant
- RoHS compliant
- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

The ART131 is an I/O expansion ATCA Rear Transition Module (ARTM) that provides PCIe, 10GbE, and GbE to the front blade.

The dual PCIe x8 ports from the zone three connector are routed to dual I-Pass connectors. This allows the PCIe from the host to be expanded to the front blade of the ART131.

The module has a layer two managed GbE switch which provides quad 10/100/1000 GbE, Quad SFP cages, as well as routing two ports to zone three.

The ART131 routes the dual 10GbE ports from zone three to dual SFP+ connectors.

VadaTech can modify the module 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 Rear Transition	I/O Module
Standard		
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	Dual x8
PICMG	ATCA	PICMG 3.0 R2.0
Configuration		
Power	ART131	10W
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	Interface connectors	Dual PCIe x8 via I-PASS
		8 GbE via RJ-45
		Quad GbE vis SFP
		GbE Switch RS-232 via RJ-45
		10GbE via Dual SFP+
		IPMI Debug port (front blade and the RTM itself)
		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	
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. ART131 Functional Block Diagram and a typical application
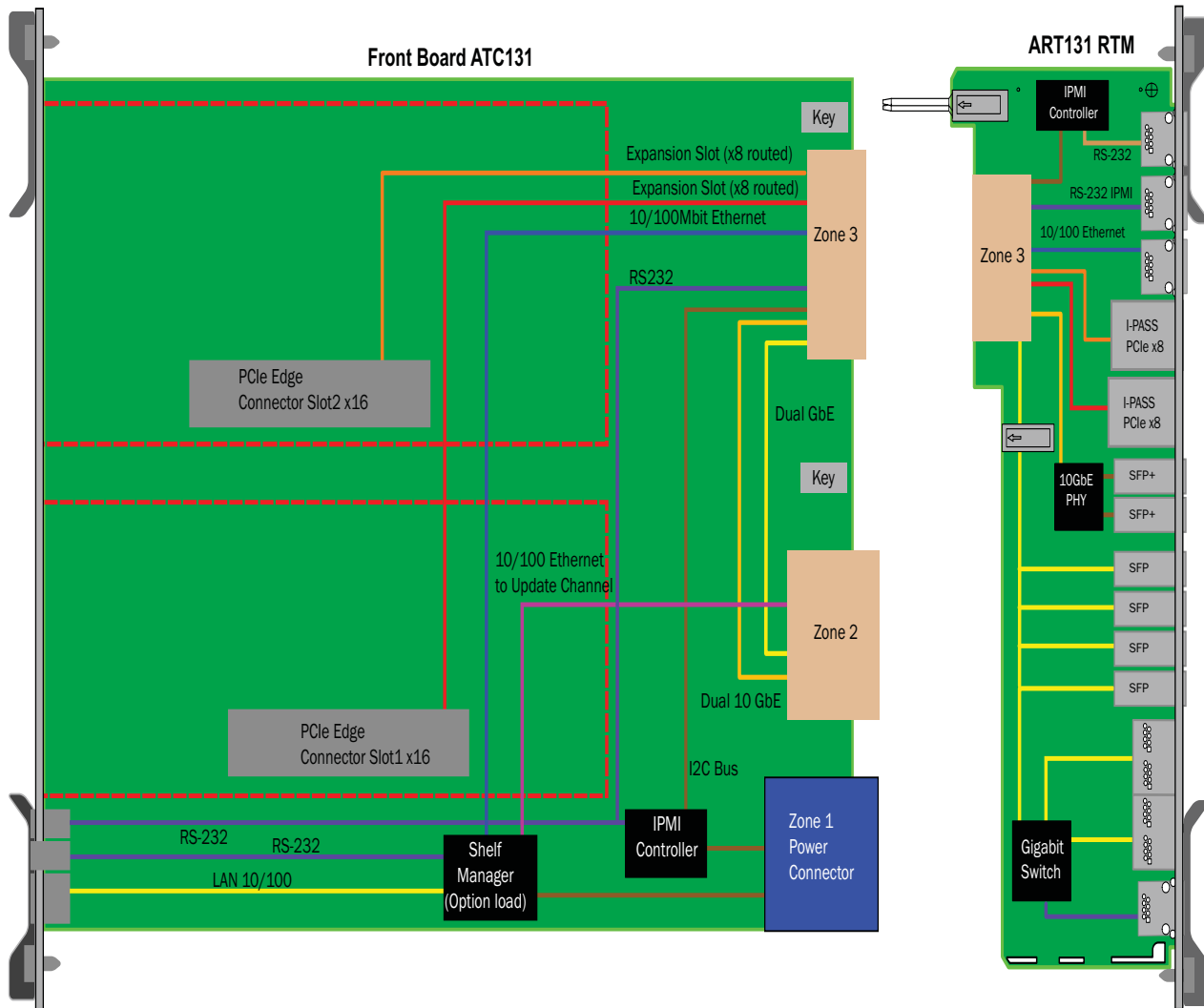
ORDERING OPTIONS

ART131 - ABC - DE0 - 0HJ

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 = SFP+ Transceiver port 1

    0 = None
    1= 10GBASE-SR
    2 = Reserved
    3 = 10GBASE-LRM
    4 = 10GBASE-LR

E = SFP+ Transceiver port 2

    0 = None
    1= 10GBASE-SR
    2 = Reserved
    3 = 10GBASE-LRM
    4 = 10GBASE-LR

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)