ART128A

ATCA Rear Transition Module (RTM) for ATC128

ATC128A

Key Features

- AdvancedTCA RTM for ATC128
- Quad 10GbE
- Dual 40GbE
- Five Port USB
- Audio
- Discreate I/O
- IPMI 2.0 compliant

Benefits

- Expertise in RTM design
- Full ecosystem of AdvancedTCA switches, processors, chassis platforms, and specialty blades
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

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The ART128A is an I/O expansion ATCA Rear Transition Module (ARTM) that is designed to mate with the ATC128 ATCA Carrier and provide high-bandwidth rear panel expansion.

The module provides two QSFP+ Ports (supporting 40GbE), four SFP+ Ports (supporting 10GbE), a Micro D-25 Port (multi USB 2.0), a Sub DB15 Port (audio), two Sub DB9 Ports (discrete I/O and dual multi-protocol serial Ports) and a Micro USB (IPMI).
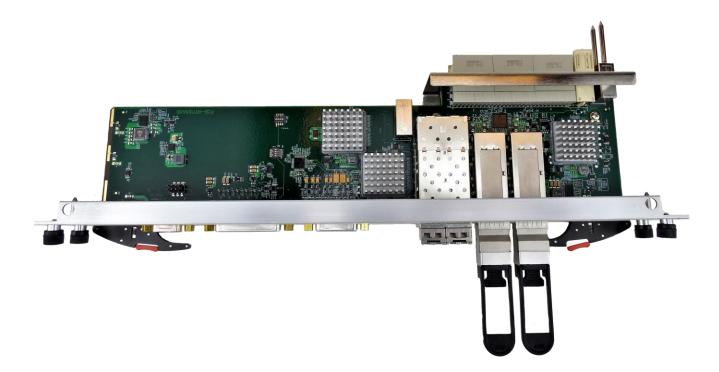

Figure 1: ART128A

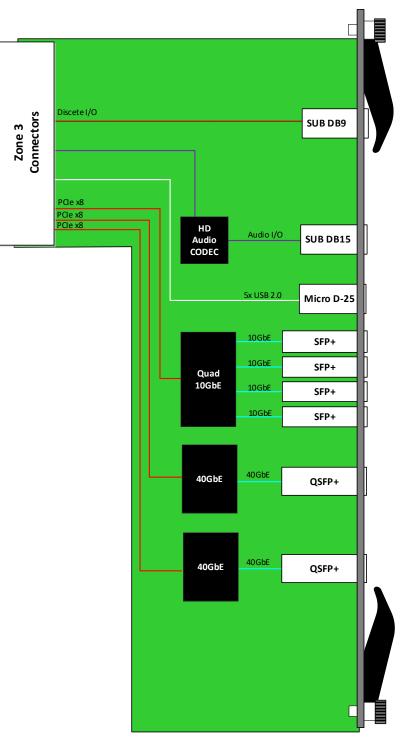*Figure 2: ART128A Top View with Transceivers*

Block Diagram

Figure 3: ART128A Functional Block Diagram

ART128A – ATCA Rear Transition Module for ATC128

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Specifications

Architecture		
Physical	**Dimensions**	Width: 12.69" (322.25 mm)
		Depth: 3.7" (94 mm)
		Weight: TBD
Type	**ATCA RTM**	Rear I/O module for ATC128
Standards		
PICMG	**ATCA**	PICMG 3.0 revision 2.0
Module Management	**IPMI**	IPMI v2.0
Ethernet		40GbE, 10GbE
Configuration		
Power	**ART128A**	~20W
Environmental	**Temperature**	See Ordering Options
		Storage Temperature: –40° to +90°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500 Hz on each axis
	Shock	Operating 30G on each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	x2 QSFP+ for 40GbE
		x4 SFP+ for 10GbE
		DB25 USB ports
		DB15 HD Audio CODEC
		DB9 Discretes
	LEDs	IPMI management control
	Mechanical	Hot-swap ejector handle
Software Support	**Operating System**	Agnostic
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 ISO9001:2015 and AS9100D standards	
Warranty	Two (2) years, see VadaTech Terms and Conditions	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.
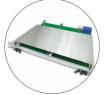
Ordering Options

ART128A – AB0-000-00J

A = 10G TXCVRs		
0 = No TXCVRs 1 = 4xSR 10GbE Multi rate (1G/10G) 2 = 4xLR 10GbE 10Km 3 = 4xLR 10GbE 40Km 4 = 4x1G/10G Copper 5 = Reserved 6 = Reserved		
B = 40G TXCVRs		
0 = No TXCVRs 1 = 2xSR 2 = 2xLR (10Km) 3 = 2xLR (40Km) 4 = Reserved 5 = Reserved		
		J = Temperature Range and Coating
		0 = Commercial (–5° to +55°C), No coating 1 = Commercial (–5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (–5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (–20° to +70°C), No coating 4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic 6 = Extended (–40° to +85°C), Humiseal 1A33 Polyurethane 7 = Extended (–40° to +85°C), Humiseal 1B31 Acrylic

Related Products

ATC139

- Carrier for dual Shelf Manager slots (VadaTech's VT011)
- PICMG 3.0 Rev 3.0 compliant
- Redundant failover between the two shelf managers

VT830

- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

VT011

- Shelf manager for AdvancedTCA systems
- Utilizing VadaTech Third Generation Shelf Manager VT003
- Quad Core ARM Freescale processor @ 1 GHz per core

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