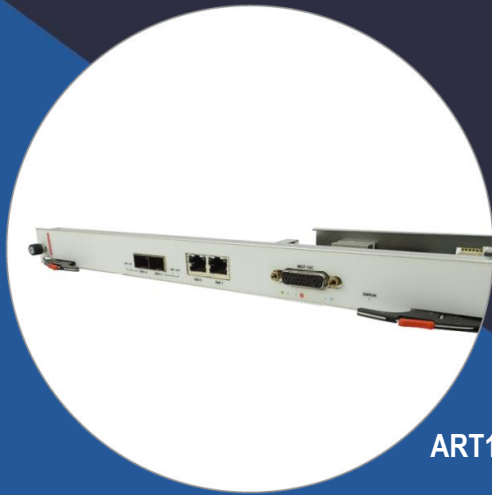


# ART130A

## ATCA Rear Transition Module (RTM) for ATC130



ART130A

### Key Features

- AdvancedTCA RTM for ATC130 Carrier
- Layer two Managed switch
- 4 GbE as egress ports via SFP and RJ-45
- RS-232 for management
- Shelf Manager Interface
- 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

**AdvancedTCA®**



**vadatech**  
THE POWER OF VISION



# ART130A

The ART130A is an I/O expansion ATCA Rear Transition Module (ARTM) that is designed to mate with the ATC130 ATCA Carrier and provide high-bandwidth rear panel expansion. The modules have an onboard Layer two managed GbE.

ART130A has four egress Ports with dual SFP cages for either Fiber/Copper transceivers and a dual 10/100/1000GbE via RJ-45. The Module also routes Shelf Manager I2C bus to DSUB-26.



Figure 1: ART130A

# Block Diagram

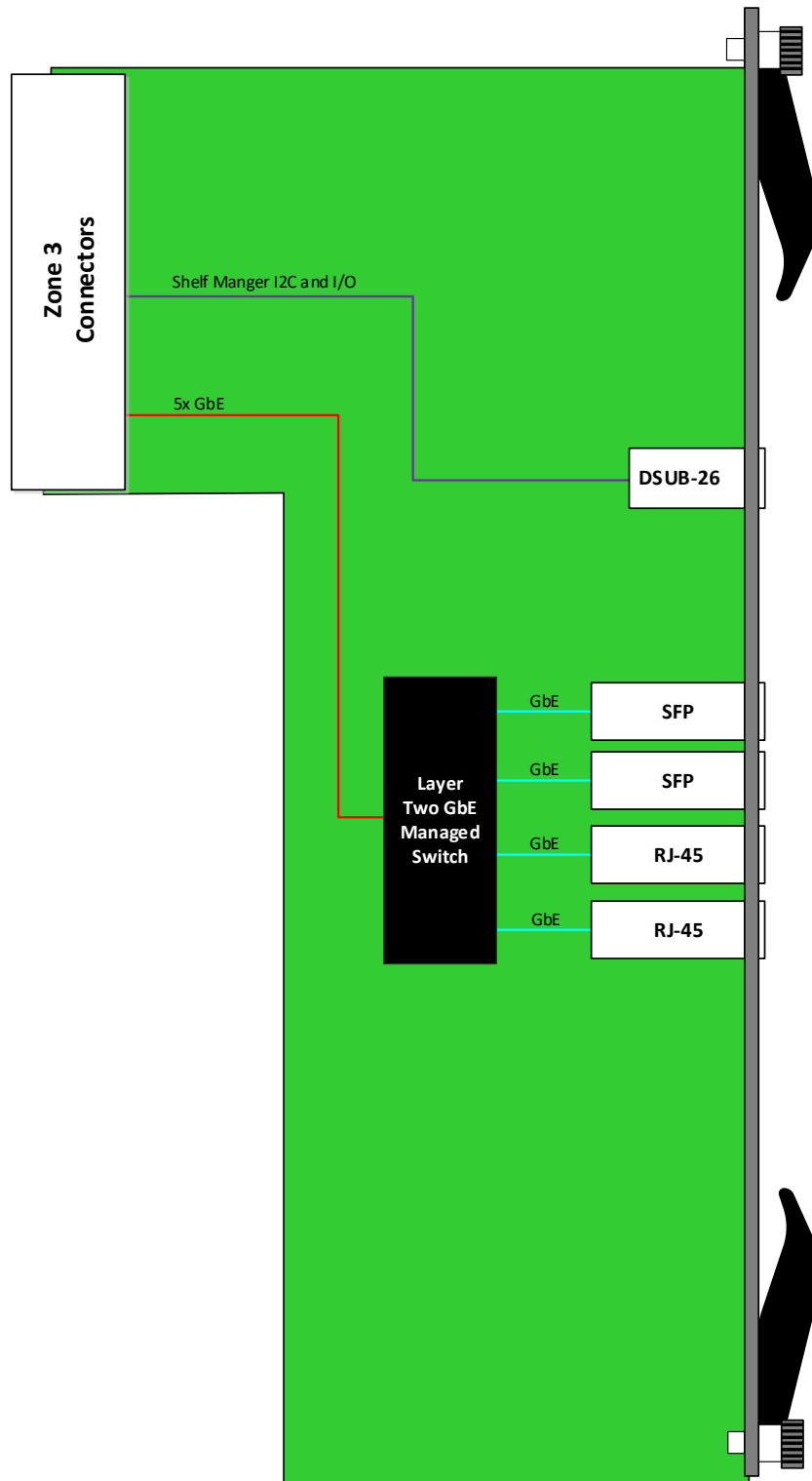


Figure 2: ART130A Functional Block Diagram

# Specifications

Architecture		
Physical	<b>Dimensions</b>	Width: 12.69" (322.25 mm)
		Depth: 3.7" (94 mm)
		Weight: TBD
Type	<b>ATCA RTM</b>	Rear I/O module for ATC130
Standards		
PICMG	<b>ATCA</b>	PICMG 3.0 revision 2.0
Module Management	<b>IPMI</b>	IPMI v2.0
Ethernet		Layer two Managed GbE
Configuration		
Power	<b>ART130A</b>	~10W
Environmental	<b>Temperature</b>	See <a href="#">Ordering Options</a>
		Storage Temperature: -40° to +90°C
		<b>Vibration</b> Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz on each axis
		<b>Shock</b> Operating 30G on each axis
	<b>Relative Humidity</b>	5 to 95% non-condensing
Front Panel	<b>Interface Connectors</b>	x2 SFP
		x2 RJ-45
		DSUB-26
	<b>LEDs</b>	IPMI management control
	<b>Mechanical</b>	Hot-swap ejector handle
Software Support	<b>Operating System</b>	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 <a href="#">VadaTech Terms and Conditions</a>

## 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.

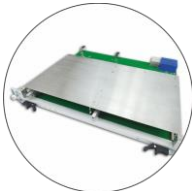
# Ordering Options

## ART130A – A00-000-00J

<b>A = SFP TXCVRs</b>		
0 = No TXCVRs 1 = 2x SR 2 = 2x LR 10Km 3 = 2x LR 40Km 4 = 2x Copper 5 = Reserved 6 = Reserved		
		<b>J = Temperature Range and Coating</b>
		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

# Contact

## VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

## Asia Pacific Sales Office

7 Floor, No. 2, Wenhui Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

## VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

# Choose VadaTech

## We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



**vadatech**  
THE POWER OF VISION

## Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2020 VadaTech Incorporated. All rights reserved.  
DOC NO. 4FM737-12 REV 01 | VERSION 1.0 – OCT/23