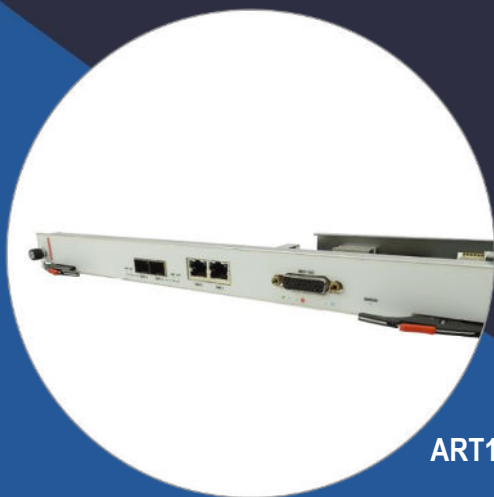


# ART130A

## 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



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# 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

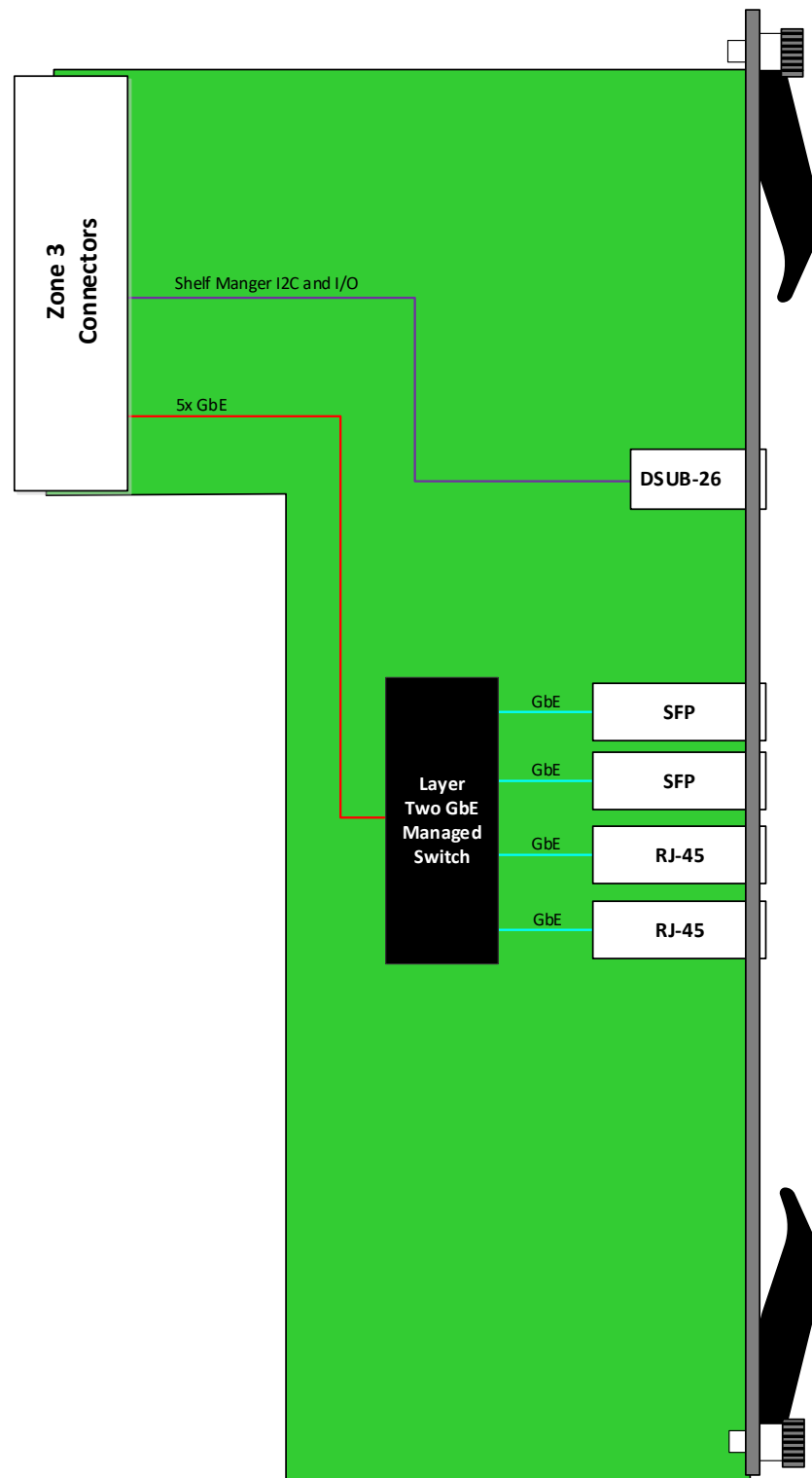


Figure 2: ART130A Functional Block Diagram

# Specifications

Architecture		
Physical	Dimensions	Width: 12.69" (322.25 mm)
		Depth: 3.7" (94 mm)
		Weight: TBD
Type	ATCA RTM	Rear I/O module for ATC130
Standards		
PICMG	ATCA	PICMG 3.0 revision 2.0
Module Management	IPMI	IPMI v2.0
Ethernet		Layer two Managed GbE
Configuration		
Power	ART130A	~10W
Environmental	Temperature	See <a href="#">Ordering Options</a>
		Storage Temperature: -40° to +90°C
	Vibration	Operating 9.8 m/s <sup>2</sup> (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 SFP
		x2 RJ-45
		DSUB-26
	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 <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.

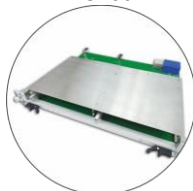
# Ordering Options

## ART130A – A00-000-00J

A = SFP TxCVRs		
0 = No TxCVRs 1 = 2x SR 2 = 2x LR 10Km 3 = 2x LR 40Km 4 = 2x Copper 5 = Reserved 6 = 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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