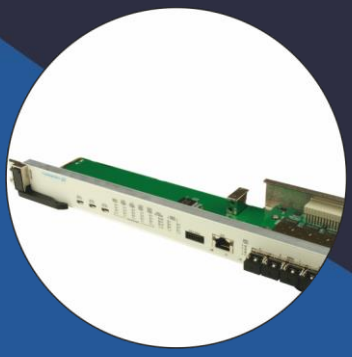
ART133

ATCA Rear Transition Module (RTM) for ATC133



ART133

Key Features

- AdvancedTCA RTM for the ATC133
- Quad SFP+ for 10 GbE
- RJ-45 port for GbE
- RS-232 for RTM management, for ATCA blade management, and for ATCA blade processor
- IPMI version 2.0
- RoHS 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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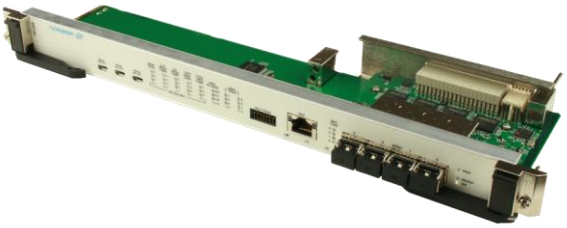
ART133

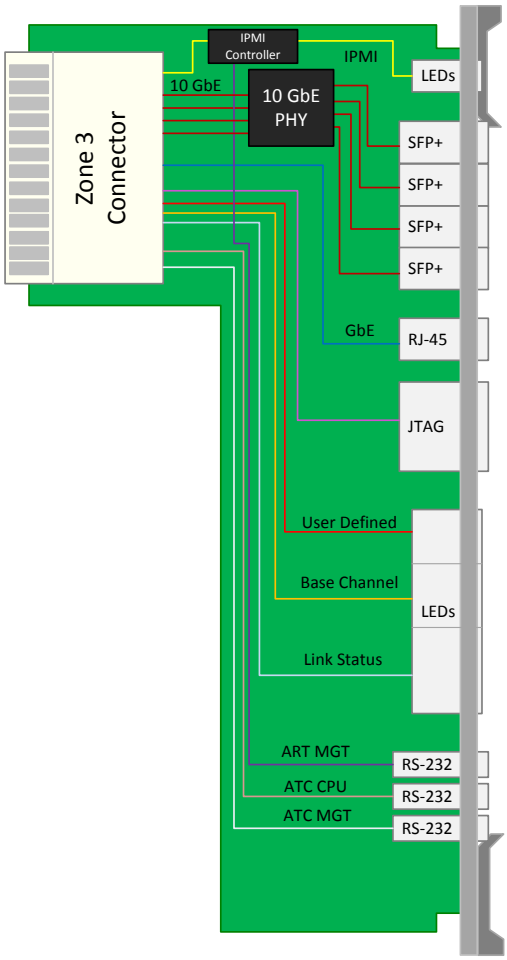
The ART133 is an I/O expansion ATCA Rear Transition Module (ARTM) that provides GbE, 10 GbE, and Management I/O for the front blade. The module is designed to mate with the ATC133 ATCA Carrier.



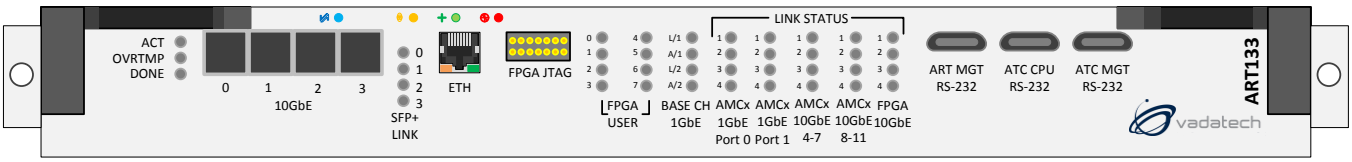
The module has quad 10 GbE ports which route to the host via the Zone 3 connector and provides quad SFP+ to the RTM front panel. Further, the module has a RJ-45 connector for GbE. The ART133 also provides a FPGA JTAG header.

The ART133 also provides a management RS-232 port and dual RS-232 ports that provide host CPU and Management access.

Block Diagram



Panel


ACT
OVRTMP
DONE
0
1
2
3
10GbE
0
1
2
3
SFP+
LINK
ETH
FPGA JTAG
FPGA
USER
BASE CH
1GbE
LINK STATUS
AMCx
1GbE
Port 0
AMCx
1GbE
Port 1
AMCx
10GbE
4-7
AMCx
10GbE
8-11
FPGA
10GbE
ART MGT
RS-232
ATC CPU
RS-232
ATC MGT
RS-232
ART133
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Specifications

Architecture		
Physical	**Dimensions**	Width: 12.69" (322.25 mm)
		Depth: 3.7" (94 mm)
Type	**ATCA RTM**	Rear I/O module for ATC133
Standards		
PICMG	**ATCA**	PICMG 3.0 revision 2.0
Module Management	**IPMI**	IPMI version 2.0
Ethernet		GbE and 10 GbE
Configuration		
Power	**ART133**	
Environmental	**Temperature**	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial versions also available (See environmental spec sheet)
		Storage Temperature: –40° to +90°C
	Vibration	Operating 9.8 m/s² (1G), 5 to 500Hz on each axis
	Shock	Operating 325G / 2 ms, 160G / 1 ms
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	**Interface Connectors**	Quad SFP+ (10 GbE)
		RJ-45 (GbE)
		Host CPU RS-232 via micro USB
		Management and host management RS-232 via micro USB
	LEDs	IPMI management control
		Base channel activity/link
		Fabric channel activity/link
		user defined LEDs
	Mechanical	Hot swap ejector handle
Software Support	**Operating System**	Linux and Windows
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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	
Warranty	Two (2) years	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), 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.

Trademarks and Disclaimer

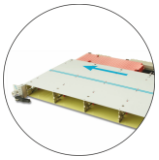
Ordering Options

ART133 – A00-000-0HJ

A = SFP+ Transceivers (quad)		
0 = None 1 = 10GBASE-SR 2 = 10GBASE-LR		
		H = Operating Temperature
		0 = Commercial 1 = Industrial
		J = Conformal Coating
		0 = None 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

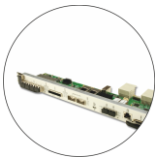
Related Products

ATC133



- 10G ATCA Carrier
- Managed Layer 2 software
- Four full-size AMC slots

ART132



- Quad GbE via SFP
- Dual InfiniBand 40Gb via QSFP+
- PCIe x8 via I-Pass

VT830

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

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