ART140A

ATCA Rear Transition (ART) Module for VadaTech ATC140 Blade

Key Features

- AdvancedTCA RTM for VadaTech ATC140 Blade
- Quad GbE 10/100/1000Base-T
- Dual USB2.0
- Quad SATA ports via mini-SAS connector
- 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

ART140A

Advanced**TCA**®

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ART140A

The ART140A is an I/O expansion ATCA Rear Transition Module (ARTM) that provides quad GbE, dual USB2.0 and quad SATA. The module is designed to mate with the VadaTech ATC140 Blade.
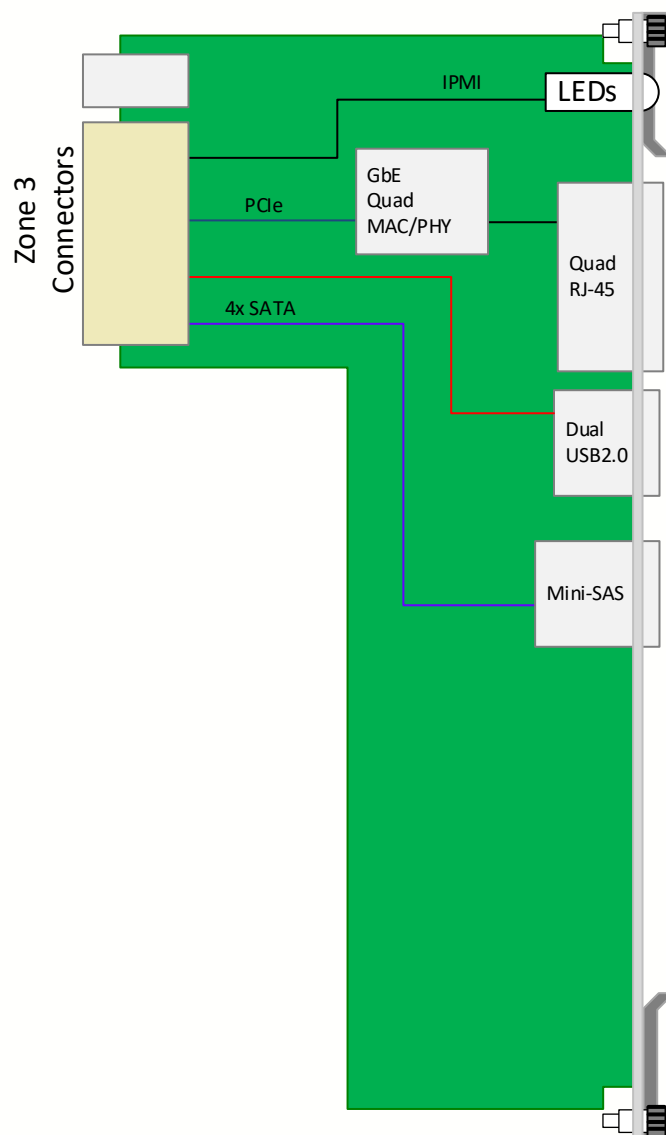
Figure 1: ART140A

Figure 2: ART140A Front View

ART140A – ATCA Rear Transition Module for ATC140

Block Diagram

Figure 3: ART140A Functional Block Diagram

ART140A – ATCA Rear Transition Module for ATC140

Specifications

Architecture		
Physical	**Dimensions**	Weight: 0.8 lbs (362.87 g)
		Width: 12.69" (322.25 mm)
		Depth: 3.7" (94 mm)
Type	**ATCA RTM**	Storage module for the VadaTech ATC140A
Standards		
PICMG	**ATCA**	PICMG 3.0 revision 2.0
Module Management	**IPMI**	IPMI version 2.0
Configuration		
Power	**ART140A**	~6 W
Environmental	**Temperature**	Operating temperature: -5° to 55° C (65°C for limited time, performance restrictions may apply), industrial and extended versions also available (See environmental spec sheet)
		Storage Temperature: –40° to +90°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500Hz on each axis
	Shock	Operating 30G on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	**Interface Connectors**	Dual USB 2.0 and Quad SATA ports via min-SAS connector
		Quad GbE via RJ-45
	Mechanical	Hot swap ejector handle
Software Support	**Operating System**	Agnostic
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.
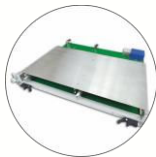
Ordering Options

ART140A – 000-000-00J

		J = Temperature Range and Coating
		0 = Commercial, No coating 1 = Commercial, Humiseal 1A33 polyurethane 2 = Commercial, Humiseal 1B31 acrylic 3 = Industrial, No coating 4 = Industrial, Humiseal 1A33 polyurethane 5 = Industrial, Humiseal 1B31 acrylic 6 = Extended, Humiseal 1A33 polyurethane 7 = Extended, 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, Wenhu 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

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