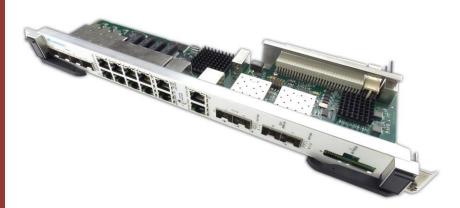# ART001 – ATCA Rear Transition Module (RTM)

**MicroTCA.4 RTM**



## KEY FEATURES

- ATCA RTM
- 8x RJ-45 ports for GbE
- RJ-45 port for 10/100 Ethernet
- 6x SFP ports for GbE
- Dual SFP+ for 10 GbE
- iPASS connector for PCIe x8
- RS-232 ports for management and RTM IPMI
- IPMI version 2.0
- RoHS compliant


**AdvancedTCA®**

## Benefits of Choosing VadaTech

- Expertise in RTM design
- Full ecosystem for ATCA (Shelf Manager, Chassis, switches, etc.)
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The ART001 is an I/O expansion ATCA Rear Transition Module (ARTM) that provides GbE, 10 GbE, PCIe and Management I/O for the front blade. The module is designed to mate with VadaTech ATCA front modules.

ART001 provides PCIe x8 access via an iPASS connector to the rear. The GbE rear access is provided via six SFP ports and eight RJ-45 ports.

The module has dual 10 GbE PHY which mates to the host via the zone 3 connector and provides dual SFP+ to the rear.

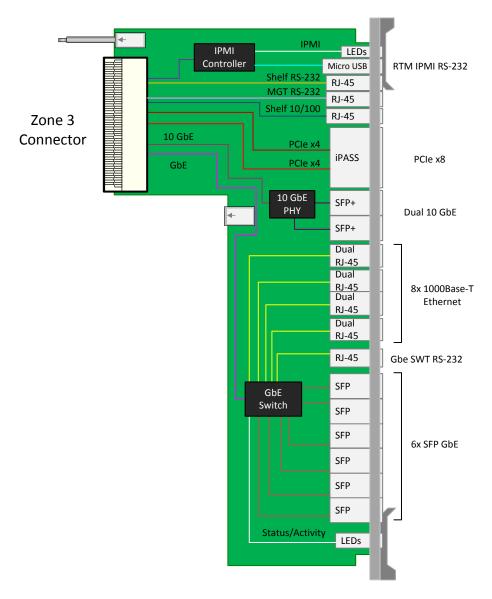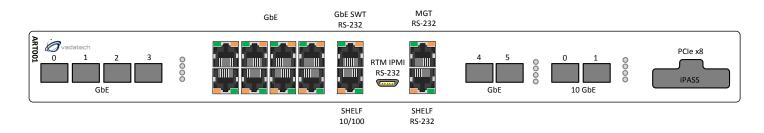The ART001 also provides dual RS-232 ports for management and RTM IPMI access to the rear.

# ART001 – ATCA Rear Transition Module (RTM)

## BLOCK DIAGRAM



Figure 1: ART001 Functional Block Diagram

## FRONT PANEL

## SPECIFICATIONS

| Architecture | | |
|---|---|---|
| **Physical** | Dimensions | Width 12.69" (322.25 mm) |
| | | Depth 3.7" (94 mm) |
| **Type** | ATCA RTM | I/O module |
| **Standards** | | |
| **Module Management** | IPMI | IPMI Version 2.0 |
| **Ethernet** | | GbE and 10 GbE |
| **PCIe** | Lanes | x8 |
| **PICMG** | ATCA | PICMG 3.0 R2.0 |
| **Configuration** | | |
| **Power** | ART001 | 18W |
| **Environmental** | Temperature | Operating Temperature: -5° to 55° C |
| | | Storage Temperature: –40° to +90° C |
| | Vibration | 1G, 5 to 500 Hz on each axis |
| | Shock | 30Gs each axis |
| | Relative Humidity | 5 to 95 percent, non-condensing |
| **Rear I/O** | 10 GbE | Dual SFP+ |
| | GbE | 6x SFP and 8x RJ-45 |
| | 10/100 | RJ-45 |
| | PCIe | iPASS connector for PCIe x8 |
| | RS-232 | RS-232 for host CPU, Management, GbE Switch |
| | LEDs | IPMI Management Control |
| | | Link/Status LEDs |
| | Mechanical | Hot Swap Ejector Handle |
| **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

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# ART001 – ATCA Rear Transition Module (RTM)

## ORDERING OPTIONS

### ART001 – A00 – 000 – 00J

**A = Fiber Transceivers for 10GbE/1GbE**
0 = SR Style
1 = LR Style
2 = Reserved

**J = Conformal Coating**
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

## RELATED PRODUCTS

**ATC133 10GbE ATCA Carrier**

**VT830 6U ATCA SlotSaver Shelf**

**ART132 ATCA RTM**

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