# ATCA Rear Transition Module

# ART104



## KEY FEATURES

- PCIe expansion via rear panel with fiber

  — Provides expansion to another ATC103/104/105/106/107/108/109, AMC103 or PCI103 board

- One 10/100Mbit Ethernet port from the management controller
- Management controller serial port
- RoHS compliant

The ART104 is a Rear Transition Module (RTM) that brings expandability to Vadatech's ATC104 carrier board. The ART104 is a passive RTM that allows for Management 10/100Mbit Ethernet, Management RS-232 serial interface and PCIe x4 lanes for expansion.

The ART104 can seamlessly be connected to an additional ART104/ART103/ATC103/104/105/106/107/108/109, AMC103 or PCI103 modules to increase the number of I/O slots via a PCIe fiber or copper expansion interconnect.
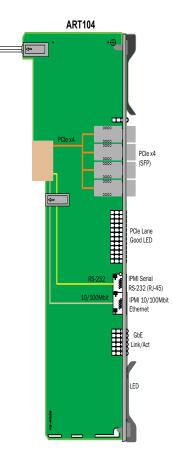
VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

## SPECIFICATIONS

| Architecture | | |
|---|---|---|
| Physical | Dimensions | Width: 12.687in. (322.25 mm) |
| | | Depth: 3.701 in. (94.00 mm) |
| Type | Rear Transition | Expansion |
| **Standards** | | |
| ATCA | Type | ATCA Rear Transition |
| **Configuration** | | |
| Power | ART104 | 4W |
| Environmental | Temperature | Operating Temperature: 0° to 65° C |
| | | Storage Temperature: -40° to +90° C |
| | Vibration | 1G, 5-500Hz each axis |
| | Shock | 30Gs each axis |
| | Relative Humidity | 5 to 95 percent, non-condensing |
| Expansion | PCIe | Expansion to another ART104/ART103 or to an ATC103, ATC104, ATC105, ATC106, ATC107, ATC108, ATC109, AMC103 or PCI103 |
| Rear Panel | Interface Connectors | One 10/100Mbit RJ-45 connector |
| | | Management Ethernet RJ-45 connectors |
| | | One Serial RS-232 RJ-45 connector |
| | | x4 PCIe expansion via fiber |
| | LEDs | Link and Activity |
| | | PCIe Lane Good |
| | Mechanical | Hot Swap Ejector Handle |
| **Other** | | |
| MTBF | MIL Spec 217-F@ 495,000 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 | |
| Compliance | RoHS and NEBS | |
| Warranty | Two (2) years | |
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**ART104**



**PCIe x4**

**PCIe x4
(SFP)**

**PCIe Lane
Good LED**

**RS-232**

**10/100Mbit**

**IPMI Serial
RS-232 (RJ-45)**

**IPMI 10/100Mbit
Ethernet**

**GbE
Link/Act**

**LED**

FIGURE 1. ART104 Functional Block Diagram

## ORDERING OPTIONS

ART104 - A00 - 000 - 00J

**A = Rear Panel Up/Downstream**

    0= Fiber LC/SX transceivers (850 nm)
    1= Fiber LC/LX transceivers (1310 nm)

**J = Conformal Coating**

    0 = None
    1 = Humiseal 1A33 Polyurethane
    2 = Humiseal 1B31 Acrylic

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