

KEY FEATURES

- 7-port USB hub
- Dual USB fiber ports
- 9-port managed layer two GbE switch
- Management 10/100Mbit Ethernet
- Shelf monitoring port (RS-232)
- Multiple I²C busses to interface to chassis
- RoHS compliant

The ART105 is a Rear Transition Module (RTM) that brings expandability to the VadaTech ATC109 carrier board. The nine port managed layer two switch provides four GbE 10/100/1000-BaseT ports, two GbE fiber ports and two GbE to Zone 2 of the ATC109 front board. The ART105 also provides connections for the shelf management 10/100Mbit Ethernet and RS-232 debug port. The RTM has a seven port USB hub. The USB upstream port as well as five additional downstream ports are provided via a Micro-DB25 connector. Two of the seven ports are converted from copper to fiber for long-distance USB extension.

The fiber USB ports interface with VadaTechs VT081 or VT082 products.

Multiple I2C buses are routed to the Micro-DB15 to interface with the chassis devices when the ATC109 is configured as the shelf manager.

Advanced TCA®

ATCA Rear Transition Module

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 12.687in. (322.25 mm)
		Depth: 3.701 in. (94.00 mm)
Type	Rear Transition	I/O Expansion
Configuration		
Power	ART105	10W
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Rear Panel	Interface Connectors	25-Pin Micro D-Sub (USB upstream as well as five USB downstream ports)
		Two USB fiber ports, LC style
		Management 10/100 Ethernet RJ-45 port
		IPMI Serial RJ-45 port
		Two 1000-Base SX Ethernet (option for LX), LC style
		Four 10/100/1000 Base-TX Ethernet
	Micro-DB15 with multiple I2C busses for chassis management	
LEDs	Link and Activity	
	PCIe Lane Good	
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Spec 217-F > 185,000 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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ATCA Rear Transition Module

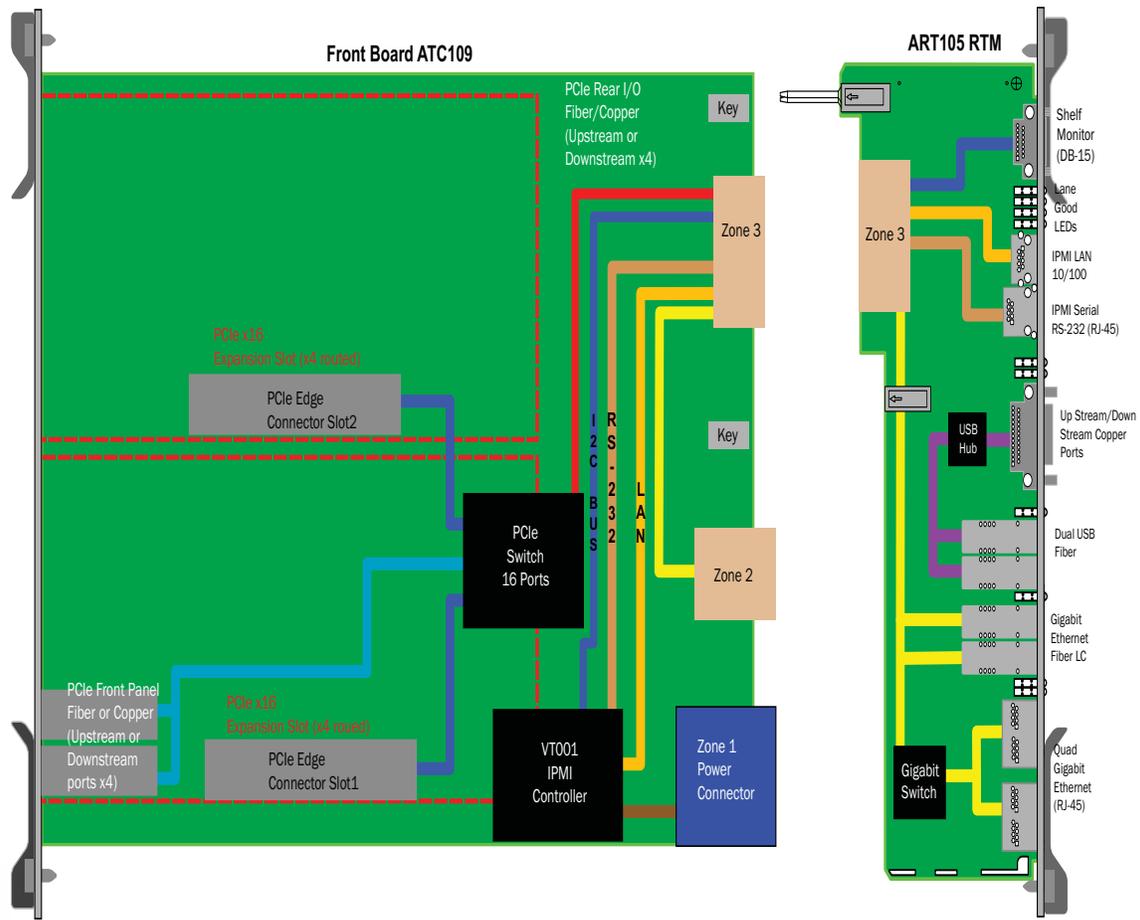


FIGURE 1. ART105 Functional Block Diagram

ORDERING OPTIONS

ART105 - A00 - 000 - 00J

A = Fiber

- 1 = LC/SX transceivers (850 nm)
- 2 = LC/LX transceivers (1310 nm)

J = Conformal Coating

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

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