VT876

MicroTCA Conduction Cooled Redundant Chassis with four AMC Slots

VT876

Key Features

- Four AMC slots with full redundancy across two slots
    - Each side is independent (two slots per side)
- Hardened ATR (Air Transport Rack) style MicroTCA (MTCA) Chassis
- Conduction cooling, fanless operation
- MicroTCA.3 style slots
- Dual MCH (MTCA Controller Hub)
- Dual DC power supply for redundancy

Benefits

- Conduction cooled four slots in an ATR style chassis for fan less operation
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

Hardened μTCA®

vadatech
THE POWER OF VISION

VT876

The VT876 is an ATR Hardened MTCA chassis that provides four mid-size AMC slots that can accept any AMC modules per MTCA.3 specification. The VT876 provides conduction cooling for fanless operation in environments requiring very low acoustic and electrical emission. The module requires a cold wall to dissipate the power or airflow over the ATR.

The VT876 has dual MicroTCA Controller Hub (MCH) slot. VadaTech can modify the backplane to accommodate any customer routing requirements.

Power Supply

The VT876 takes Dual Standard MTCA Power Entry Module (PEM). The PEM utilized determines the input power (i.e. +28V, -48V, AC, etc.).

Cooling

The VT876 chassis is conduction cooled for fanless operation and is designed as an ATR Chassis.

Figure 1: VT876 Front View

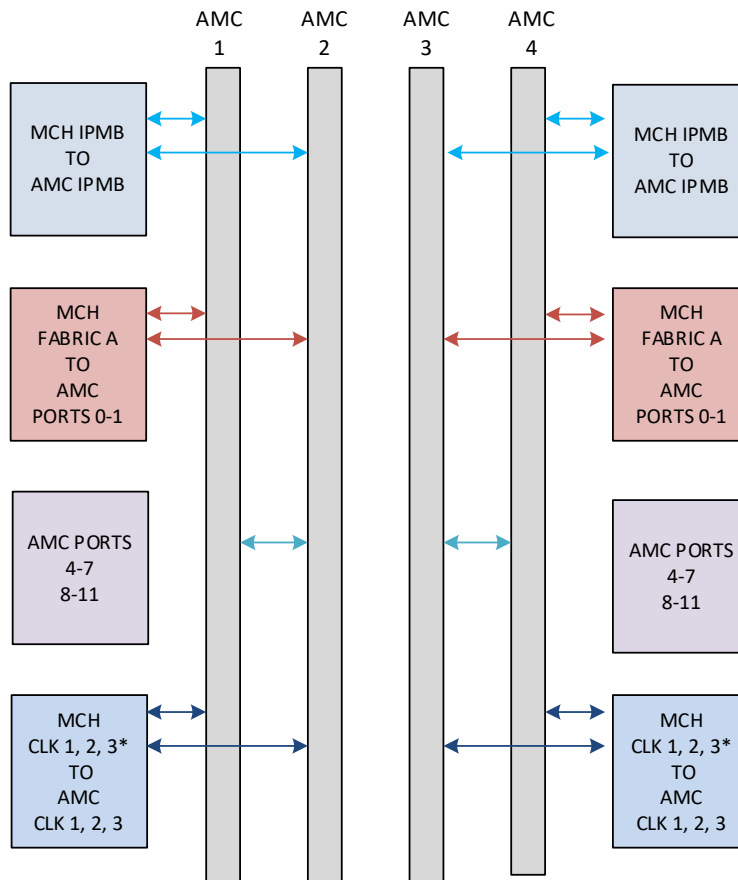*Figure 2: VT876 Side View*

Backplane Connections
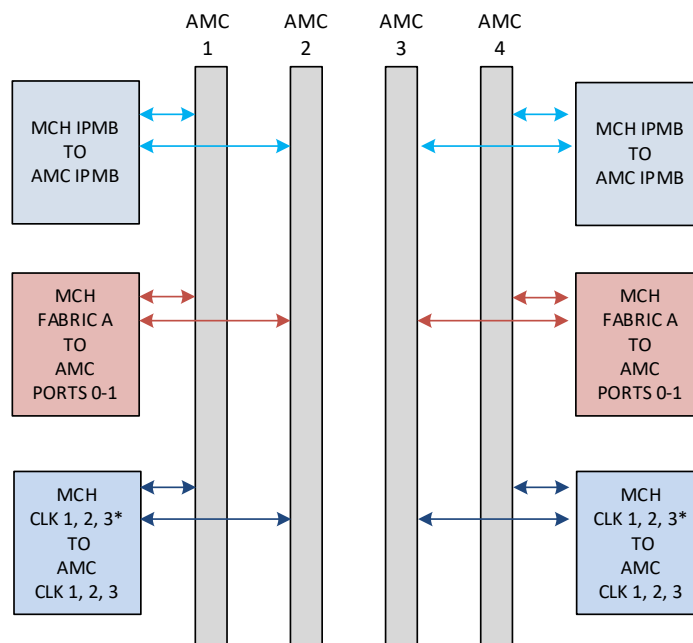

Figure 3: VT876 Backplane Connections

Figure 3A: VT876 Backplane Connections

VT876 – ATR style MTCA Conduction Cooled Chassis with 4 AMC Slots   info@vadatech.com | www.vadatech.com

Specifications

Architecture		
Physical	**Dimensions**	Height: 9.7" (with cold plate 9.7")
		Width: 4.9" (with cold plate 5.1")
		Depth: 13" (with cold plate 15.3")
Type	**MTCA Chassis**	Four AMC conduction cool slots
Standards		
AMC	**Type**	AMC.0, AMC.1, AMC.2 and AMC.3
MTCA	**Type**	MTCA.3
Configuration		
Power	**VT876**	Dual Standard Power Entry (PEM) Modules per MTCA specification
		PEM determines the input Voltage
Ports	**Backplane**	See Figure 3
Environmental	**Temperature**	Operating Temperature: Module dependent
		Storage Temperature: –40° to +90°C
	Vibration	0.5G RMS, 20-20,000 Hz random (Operating): 6G RMS (non-operating)
	Shock	30G on each axis
	Relative Humidity	5 to 95% non-condensing
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	One (1) year, see VadaTech Terms and Conditions	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

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

VT876 – 0B0-000-00J

B = Backplane		
0 = Per figure 3A 1 = Per figure 3		
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

VT878

- Two-module chassis
- Compact and robust design
- Designed for bulkhead mount in ground or air vehicle

AMC524C

- Quad ADC 16-bit @ 125 MSPS (AD9653)
- Dual DAC 12-bit @ 2.5 GSPS (DDS AD9915)
- Artix-7 FPGA with dual banks of DDR-3, 2 GB total

AMC710C

- Single module, mid-size per AMC.0
- Conduction cooled version available
- Freescale QorIQ P4040/P4080 processor

VT876 – ATR style MTCA Conduction Cooled Chassis with 4 AMC Slots

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

Choose VadaTech

We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited

Trademarks and Disclaimer

vadatech
THE POWER OF VISION