VT898

6U µTCA Desktop Chassis, 6 AMC Full Size, 40GbE

VT898

Key Features

- MTCA Desktop (rackmount optional) System Platform 10" x 6U x 16.65" deep
- Redundant cooling in push/pull front-to-rear airflow configuration
- Spring-loaded carry handle is flush to top of chassis when not in use
- Up to 6 AMCs in single module/full-size
- Single 1000W AC Power supply
- Telco Alarm
- Routes FCLKA, TCLKA, TCLKB, TCLKC, and TCLKD

Benefits

- 40GbE MicroTCA Chassis
- Convenient spring-loaded carry handle, weight balanced positioning
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

µTCA®

40G

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VT898

The VT898 is a 6U MicroTCA chassis that provides 6 full-size AMC slots that can accept any AMC.1, AMC.2, AMC.3 and/or AMC.4 modules. The chassis is ideal for desktop/lab use. Only 10" wide, the enclosure has a spring loaded carry handle which remains flush with the chassis when not in use. The 40GbE backplane has routing for FCLK, TCLKA, TCLKB, TCLKC, and TCLKD.

The CLK3 option on the VT898 can be configured for the Fabric clock, Telecom clock, or Fabric B. There is an option for Port 2 and 3 to be directly connected among the adjacent AMCs or to the fabric B (AMC.3 SATA/SAS switch option on the MCH). The chassis also routes ports 12-15 to 17-20 of the adjacent slot. The VT898 has a Telco Alarm as well as redundant FRU information devices and carrier locators.

Power Supplies

The VT898 has a single 1000W AC. The AC input voltage is from 110 to 240V AC (frequency from 47 Hz to 63 Hz) from the back of the chassis. Unique easy-glide strips provide smooth PSU insertion/extraction.

Cooling and Temperature Sensors

The VT898 has dual intelligent fan trays that are designed to minimize acoustic noise. The redundancy allows fail-safe operation in case one of the Cooling Units becomes non-operational. The cooling airflow is from front to back. The removable air filter has a switch to detect its presence and can be monitored for when it needs to be replaced.

There are a total of 12 temperature sensors in the chassis that monitor the intake and the outtake air temperature throughout the chassis.

Telco Alarm

The VT898 provides Telco alarm functionality to alert about any anomaly within the chassis. The Telco Alarm is provide via a Micro DB-9 as well as LEDs in the front to show any anomaly. The Telco alarm module is built into the chassis, located above the fan tray.

FRU Information and Carrier Locator

The VT898 has dual redundant FRU information and Carrier Locators. The Carrier Locator is assigned by mechanical dip switches which are easily accessible. The MCH reads the Locator via its private I2C bus.

40G Backplane

The 40GbE backplane does not have any active components, making serviceability easy. The backplane utilizes Megtron 6 PCB material and via back-drilling for superior signal integrity.
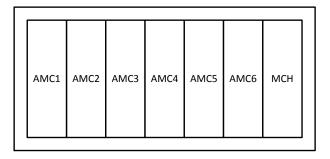
Scorpionware™ Software

VadaTech's Scorpionware software can be used to access information about the current state of the Shelf or the Carrier, obtain information such as the FRU population, or monitor alarms, power management, current sensor values, and the overall health of the Shelf. The software GUI is very powerful, providing a Virtual Carrier and FRU construct for a simple, effective interface.
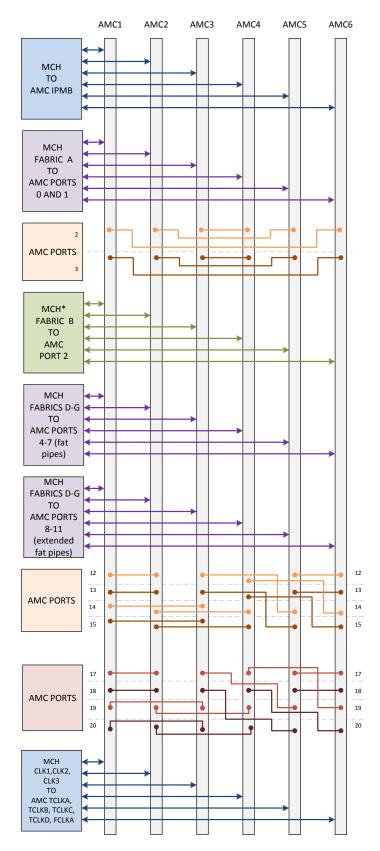
Slot Distribution

AMC1	AMC2	AMC3	AMC4	AMC5	AMC6	MCH

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Backplane Connections

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Specifications

Architecture		
Physical	**Dimensions**	Height: 6U
		Width: 10"
		Depth 16.65"
		Weight: ~25 lbs. (no AMCs)
Type	**MTCA Shelf**	6 AMC.0 Full-size slots
Standards		
MTCA	**Type**	PICMG MicroTCA.0
AMC	**Type**	AMC.0, AMC.1, AMC.2, AMC.3 and AMC.4
Configuration		
Power		1000 W, 110V to 240V AC with frequency from 47 to 63 Hz
Environmental	**Temperature**	Operating temperature: 0° to 55°C (See environmental spec sheet)
		Storage Temperature: –40° to +70°C
	Altitude	Operating: 10,000 ft
		Non-operating: 40,000 ft
	Relative Humidity	5 to 95 percent, non-condensing
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

VT898 – 0BC-D00-0HJ

	D = JSM	
	0 = JSM not included 1 = JSM included	
B = Ports 2 and 3		**H = Temperature**
1 = Direct connections 2 = To MCH		1 = Commercial 2 = Industrial
C = MCH CLK3 Channels		**J = Conformal Coating**
1 = Telco 2 = FCLKA 3 = Fabric B		0 = No coating 1 = Humiseal 1A33 polyurethane 2 = Humiseal 1B31 acrylic

Related Products

UTC004

- Unified 1GHz quad-core CPU for MCMC (MicroTCA Carrier Management Controller), Shelf Manager, Clocking, and Fabric management
- Automatic fail-over with redundant UTC004s
- Full Layer 2 or 3 managed Ethernet switches

AMC534

- Altera Stratix V GT FPGA in FFG-1517 package
- Dual zQSFP+ ports to the front panel
- Front panel Port 0 at 100G, Port 1 at up to 40G

AMC626

- Host Bus Adapter (HBA) for external SATA III (6.0 Gbps) or SAS-3 (12 Gbps) drives
- PCIe Gen3 x8 or x4
- Support for 8 SAS/SATA ports

Contact

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