

VT930

3U Rugged MTCA.1 Chassis Platform with 12 AMC Slots



VT930

Key Features

- Rugged MTCA.1 sub-rack 19" x 3U x 8.35" deep
- Up to 12 AMCs: 6 full-size and 6 mid-size
- Designed for external forced air cooling (bottom to top)
- Full redundancy with dual MicroTCA Carrier Hub (MCH) and Power Modules
- Provision for local airflow management
- No active components on the backplane
- ESD jack at the top front

Benefits

- Rugged design for Mil/Aero, Industrial, and Transportation applications with 40GbE capable
- Scorpionware™ Shelf Management Software included at no additional cost
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

40G



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The VT930 is a 3U MTCA chassis that provides 12 AMC slots that can accept any AMC.1, AMC.2, AMC.3 and/or AMC.4. The chassis has perforated bottom and top covers for airflow from an external fan tray (fans not included with VT930).

The chassis is designed to MicroTCA.1 specification for rugged applications. It has a Dual Star backplane configuration with 40GbE capable.

FRU Information and Carrier Locator

The VT930 has dual redundant FRU information and Carrier Locators. The Carrier Locator is assigned by mechanical dip switches which are easily accessible. As the switches are removable, the backplane can remain passive. The MCH reads the Locator via its private I2C bus.

40G Backplane

The VT930 is a 40GbE passive backplane that does not have any active components, making serviceability easy.

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.



Figure 1: VT819 Chassis

Chassis Layout

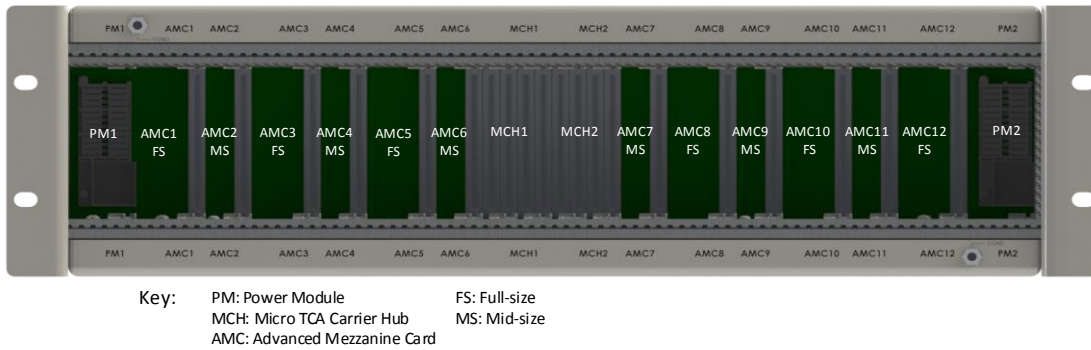


Figure 2: VT930 Chassis Front View

Backplane Connections

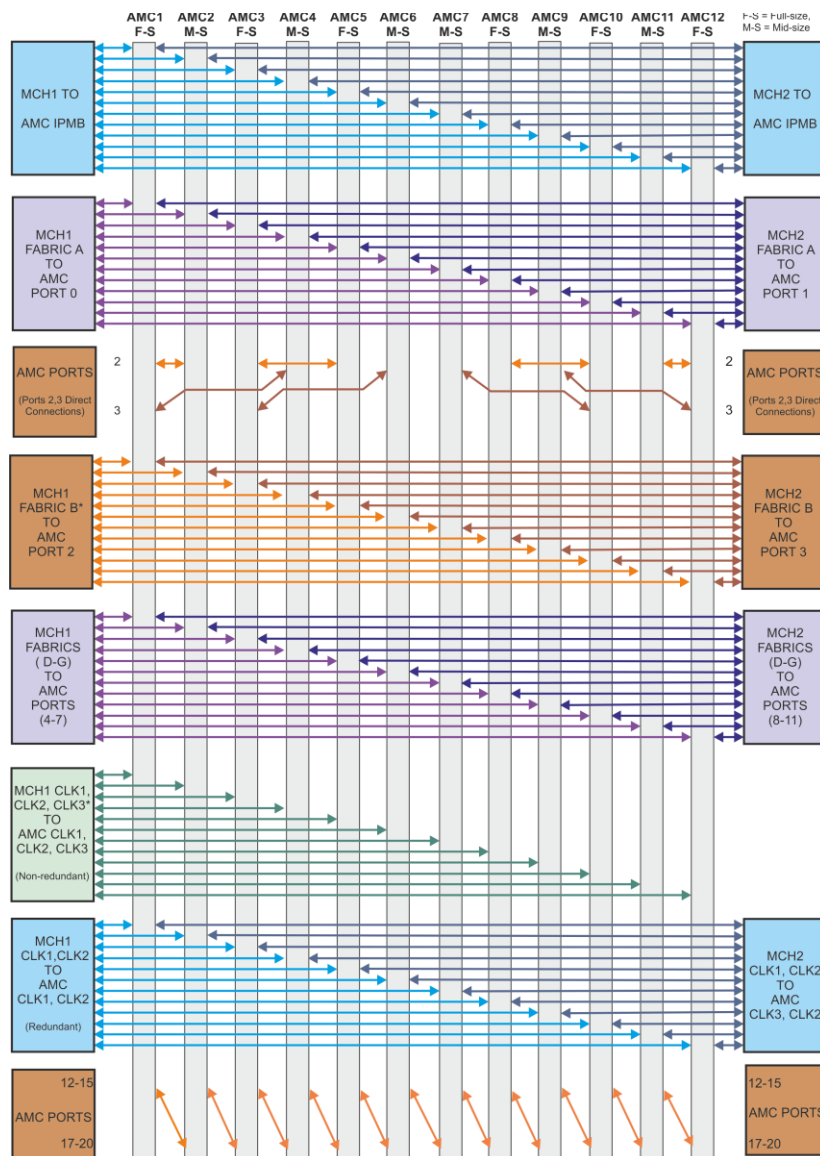


Figure 3: VT930 Backplane Connections

Specifications

Architecture	
Physical	Dimensions Width: 19"
	Depth: 8.35"
	Height: 3U
Type	MTCA Chassis 12 AMC.0 single module, (6 mid-size and 6 full size)
Standards	
AMC	Type AMC.0, AMC.1, AMC.2, AMC.3 and AMC.4
MTCA	Type MicroTCA.1
Configuration	
Power	VT930 Dependent on Power Module used
Environmental	Temperature Operating temperature: -20° to +70° C
	Storage Temperature: -40° to +70°C
	Altitude 10, 000 ft operating
	40, 000 ft non-operating
	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	Two (2) years

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

VT930 – 0BC-000-00J

B = Ports 2 and 3		
1 = Direct connections 2 = To MCH		
C = MCH CLK3 Channels		J = Conformal Coating
1 = Non-redundant (Telco) 2 = Non-redundant (FCLKA) 3 = Redundant		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

AMC515



- AMC FPGA carrier for FPGA Mezzanine Card (FMC) per VITA 57
- Xilinx Virtex-7 XC7V2000T in 1925 package
- AMC Ports 4-11 are routed to FPGA (protocols such as PCIe, SRIO, XAUI, etc. are FPGA programmable)

AMC720



- Intel® Xeon™ E3 processor AMC
- Conduction cooled version available
- PCIe Gen2 (Gen3 on v2 option)

UTC020



- Single module, full-size per AMC.0
- Dual -36V DC to -75V DC input, 936 W (available in 468 W)
- Hot swappable with support for power module redundancy

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