vadatech
THE POWER OF VISION

3URugged µTCA.1 Chassis, 12 AMCs – VT930

3U µTCA.1 Chassis, 12 AMCs

KEY FEATURES

- Rugged µTCA.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
- RoHS compliant

40G

Benefits of Choosing VadaTech

- Rugged design for Mil/Aero, Industrial, and Transportation applications with 40GbE capable
- Ideal for rack environment with separate fan trays
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The VT930 is a 3U µTCA 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.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

VadaTech Incorporated • 198 N. Gibson Road, Henderson, NV 89014 • Tel: (702) 896-3337 • Fax (702) 896-0332
Email: info@vadatech.com • www.vadatech.com

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.

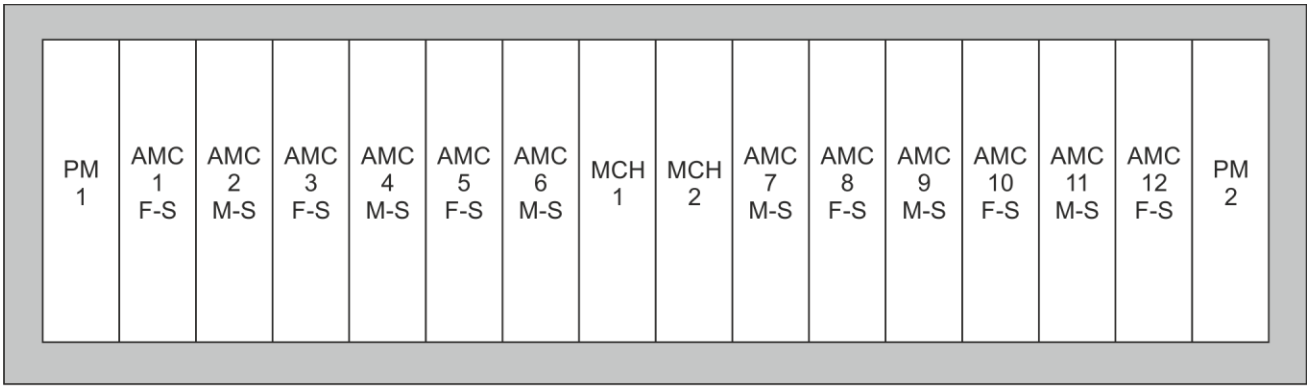
SCORPIONWARE™ SOFTWARE

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.

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

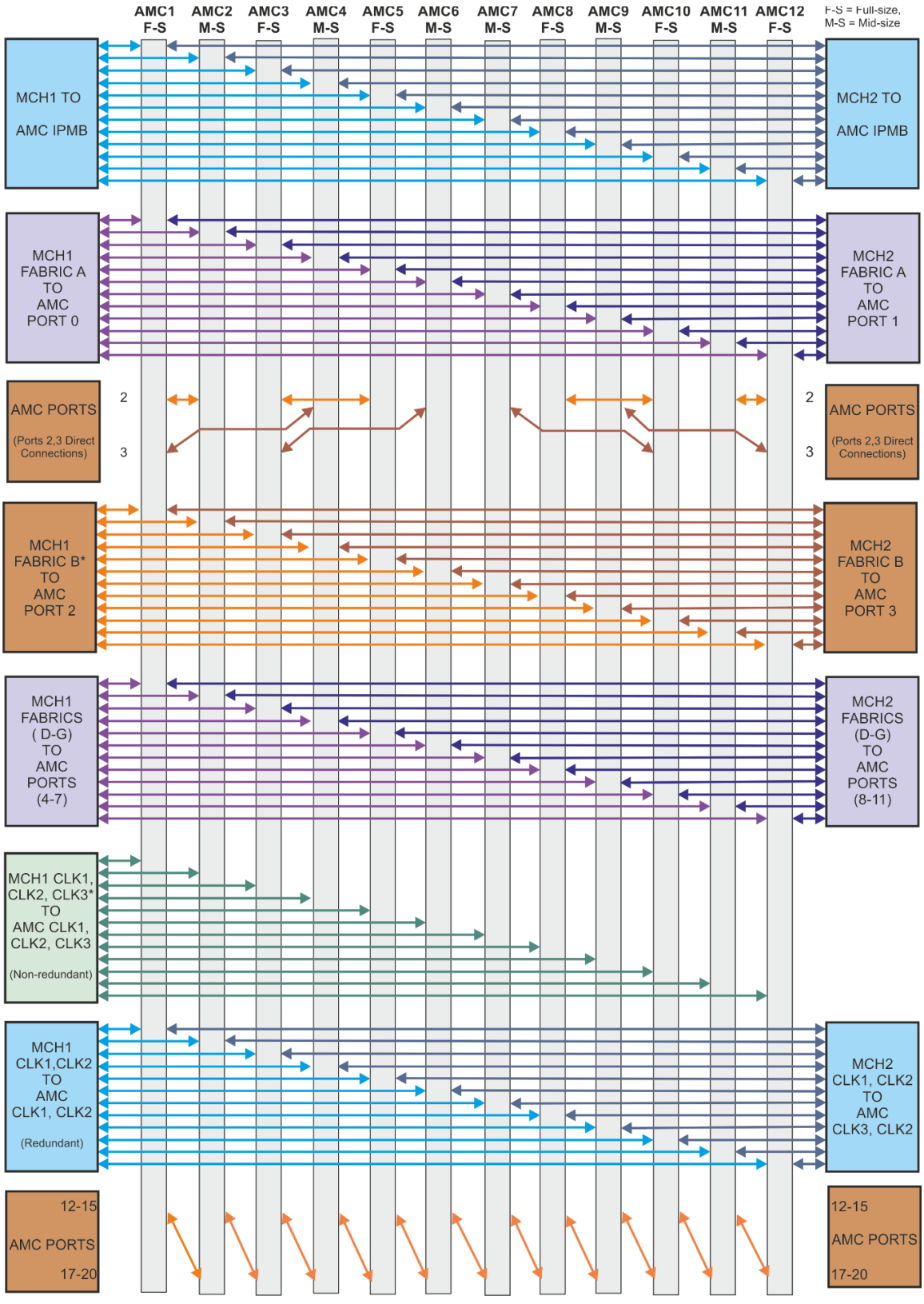
VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

CHASSIS LAYOUT



Note: F-S = Full size, M-S = Mid-size

BACKPLANE CONNECTIONS



*When selecting non-redundant clocking slots 7-12 will not have Port 2 connectivity to MCH 1.

SPECIFICATIONS

Architecture		
Physical	Dimensions	Height 3U
		Width 19”
		Depth 8.35”
Type	µTCA Chassis	12 AMC.0 slots: 6 full-size and 6 mid-size
Standards		
AMC	Type	AMC.1, AMC.2, AMC.3 and AMC.4
µTCA	Type	MicroTCA.1
Configuration		
Power	VT930	Power depends on the Power Module selection
Environmental	Temperature	Operating Temperature: –5° to 55° C
		Storage Temperature: –40° to +70° C
	Altitude	10,000 ft operating
		40,000 ft non-operating
	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	
Compliance	RoHS and NEBS	
Warranty	Two (2) years	
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ORDERING OPTIONS

VT930 – 0BC – 000 – 00J

B = Ports 2 and 3
1 = Direct connections
2 = To MCH

C = MCH CLK3 Channels
1 = Non-redundant (Telco)
2 = Non-redundant (FCLKA)
3 = Redundant

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

RELATED PRODUCTS

AMC720 Intel Core i Processor AMC

UTC020 Power Module

AMC515 Virtex-7 FPGA

CONTACT US

VadaTech Corporate Office

198 N. Gibson Rd
Henderson, NV 89014
Email: info@vadatech.com
Telephone: +1 702 896-3337
Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District,
Taipei 114,Taiwan
Email: info@vadatech.com
Telephone: +886-2-2627-7655
Fax: +886-2-2627-7792

VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way,
Ocean Village, Southampton, SO14 3JZ
Email: info@vadatech.com
Telephone: +44 2380 381982
Fax: +44 2380 381983