

## VT992 – 1U External Power Supply for MTCA and VPX Systems, Quad 1200 W

1U External Power Supply



### KEY FEATURES

- Up to four hot-swappable Power Supply Units
- 1200 W per PSU
- Four –48V DC Output via front panel
- MicroTCA and VPX 1U 19" rack mount chassis platform
- RoHS compliant

**μTCA®**

### Benefits of Choosing VadaTech

- 1U chassis in 19" rackmount
- Compact solution for providing full power redundancy
- 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 VT992 is a 1U, 19" rack mountable external power supply for μTCA and VPX systems. The VT992 can be purchased with up to four hot-swappable Power Supply Units (PSU). These universal AC input PSUs are accessed via rear of the VT992.

The VT992 provides four –48 VDC outputs via front panel connectors. Each PSU supplies 1200 W power with total power output of 4800 W.

## POWER SUPPLY

The VT992 offers quad redundant AC power supplies that are hot pluggable from the rear of the chassis.

## COOLING AND TEMPERATURE SENSORS

The VT992 has built-in intelligent Cooling Units that provide front to back cooling. There are Temperature sensors throughout the chassis that monitors the intake and the outtake air temperature.

## CHASSIS LAYOUT

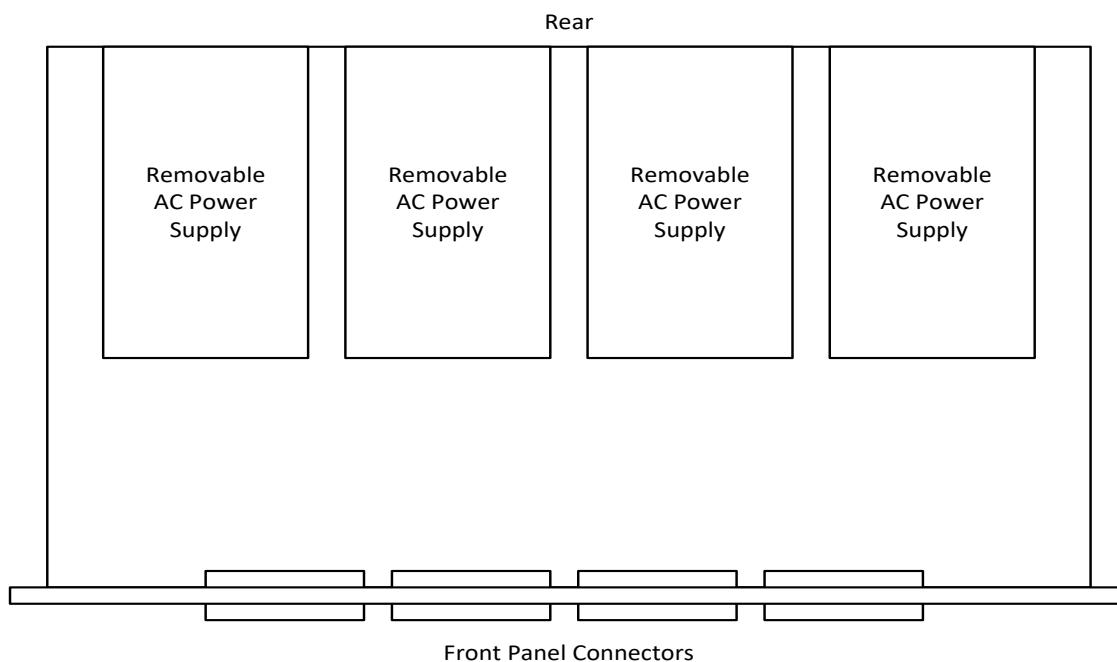


Figure 1: Top View of VT992

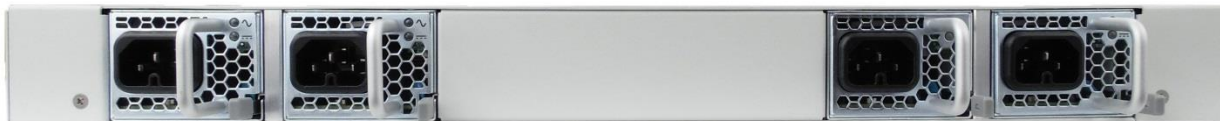


Figure 2: Rear View of VT992

## BLOCK DIAGRAM

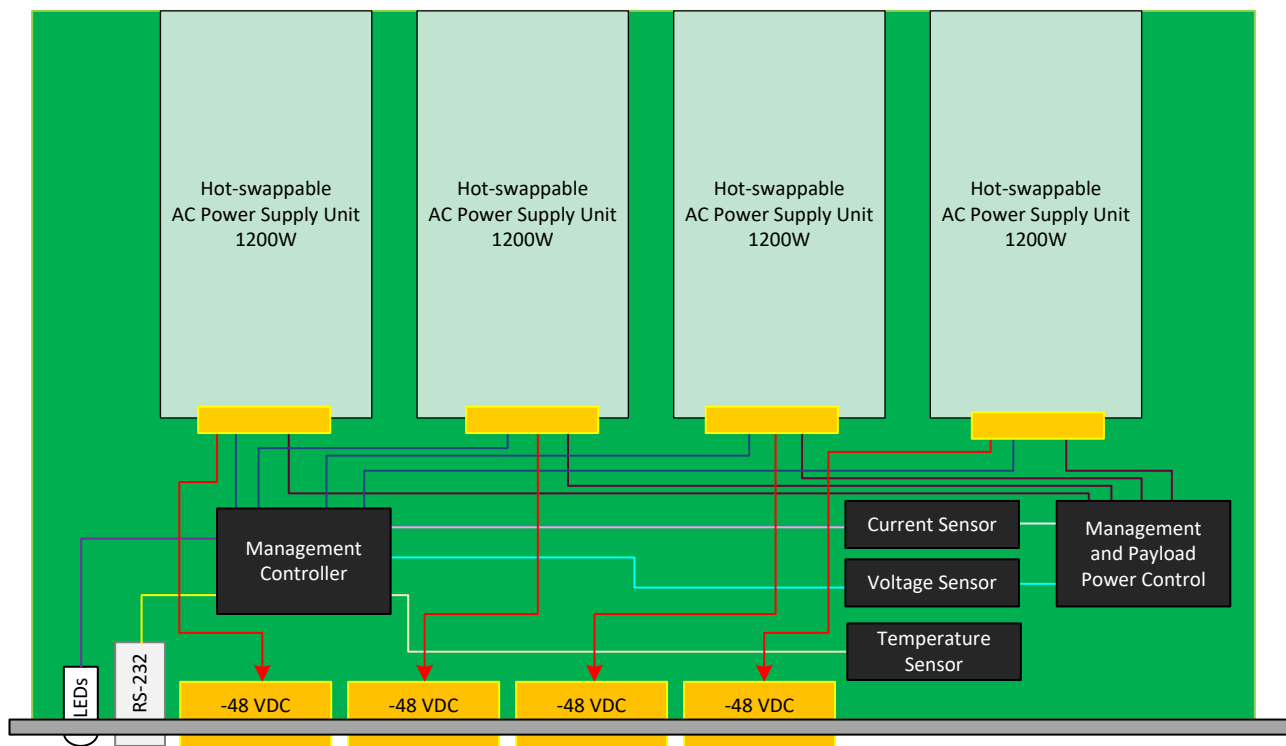


Figure 2: Top Level Block Diagram

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 1U
		Width: 19"
		Depth: 16.50"
Type	MTCA and VPX Power Supply	External power supply for MTCA and VPX Chassis
Standards		
µTCA	Type	MicroTCA.0
VPX	Type	VITA 46.0 Baseline Specification
Power	Power	Input: Up to four Universal AC,
		Output: Up to four –48 VDC, 1200 W per supply
		Up to 4 hot-swappable PSU accessed via rear
Environmental	Temperature	Operating Temperature: 0° to 55° C
		Storage Temperature: –40° to +70° C
	Altitude	10,000 ft operating
		40,000 ft non-operating
Front Panel	Relative Humidity	5 to 95 percent, non-condensing
	LEDs	IPMI management LEDs
	Interface	Four -48 VDC power connectors
		RS-232 via Micro USB
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 offers a full range of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, carriers, Rear Transition Modules (RTM), Power Modules, and more. This allows customers to source complete systems from an industry-leader provider with confidence of interoperability. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

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## ORDERING OPTIONS

### VT992 – AB0 – 000 – 00J

#### A = Power Supply Units (PSU)\*

- 1 = Single PSU
- 2 = Dual PSUs
- 3 = Triple PSUs
- 4 = Quad PSUs

#### B = Power output cables

- 0 = With  $\mu$ TCA power cable\*\*
- 1 = Without power cables
- 2 = With VPX power cables\*\*

#### J = Temperature Range and Coating

- 0 = Commercial, No coating
- 1 = Commercial, Humiseal 1A33 Polyurethane
- 2 = Commercial, Humiseal 1B31 Acrylic
- 3 = Industrial, No coating
- 4 = Industrial, Humiseal 1A33 Polyurethane
- 5 = Industrial, Humiseal 1B31 Acrylic
- 6 = Reserved
- 7 = Reserved

\* 1200 W per power supply

\*\* Single 12" cable. For other configurations, use B=1 and order cables separately

## RELATED PRODUCTS



**VT892**  
**7U MTCA Chassis**



**VT895**  
**6U MTCA Chassis**



**UTC010**  
**MTCA Power Module**

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