VT992 – 1U External Power Supply for µTCA Systems, Quad 1200 W

The VT992 is a 1U, 19” rack mountable external power supply for µTCA 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.

KEY FEATURES
- Up to four hot-swappable Power Supply Units
- 1200W per PSU
- Four –48V DC Output via front panel
- µTCA 1U 19” rack mount chassis platform
- RoHS compliant

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
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

![Diagram of VT992 chassis layout](image-url)

Figure 1: Top View of VT992

Figure 2: Rear View of VT992
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BLOCK DIAGRAM

Figure 2: Top Level Block Diagram
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
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<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height 1U</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Width 19&quot;</td>
<td></td>
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<tr>
<td></td>
<td>Depth 16.50&quot;</td>
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<tr>
<td><strong>Type</strong></td>
<td>MTCA Power Supply</td>
<td>External power supply for MTCA chassis</td>
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<tr>
<td><strong>Standards</strong></td>
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<tr>
<td>µTCA</td>
<td>Type</td>
<td>MicroTCA:0</td>
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<tr>
<td><strong>Power</strong></td>
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<tr>
<td>Input</td>
<td>Up to four Universal AC,  Output: Up to four –48 VDC, 1200 W per supply</td>
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<tr>
<td></td>
<td>Up to 4 hot-swappable PSU accessed via rear</td>
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<tr>
<td><strong>Environmental</strong></td>
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<tr>
<td>Temperature</td>
<td>Operating Temperature: 0° to 55° C</td>
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</tr>
<tr>
<td>Storage</td>
<td>Storage Temperature: –40° to +70° C</td>
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<tr>
<td>Altitude</td>
<td>10,000 ft operating</td>
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<tr>
<td>Relative Humidity</td>
<td>40,000 ft non-operating</td>
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<tr>
<td>5 to 95 percent, non-condensing</td>
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<tr>
<td><strong>Front Panel</strong></td>
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<tr>
<td>LEDs</td>
<td>IPMI management LEDs</td>
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<tr>
<td>Interface</td>
<td>Four -48 VDC power connectors</td>
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<tr>
<td></td>
<td>RS-232 via Micro USB</td>
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<tr>
<td><strong>Conformal Coating</strong></td>
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<tr>
<td></td>
<td>Humiseal 1A33 Polyurethane (Optional)</td>
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<tr>
<td></td>
<td>Humiseal 1B31 Acrylic (Optional)</td>
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<tr>
<td><strong>Other</strong></td>
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</tr>
<tr>
<td>MTBF</td>
<td>MIL Hand book 217-F @ TBD Hrs</td>
<td></td>
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<tr>
<td><strong>Certifications</strong></td>
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<tr>
<td>Designed</td>
<td>meet FCC, CE and UL certifications where applicable</td>
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<td><strong>Standards</strong></td>
<td>VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>Two (2) years</td>
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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 power cable**
1 = Without 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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