## VTX997

Rugged Dual slot 3U VPX Chassis for Test and Validation in Thermal Chamber and Shock/Vib Table

VTX997

## Key Features

- Dual Conduction cool slots 3U VPX Chassis for Test and Validation
- Active environmental Chamber Testing with Shock/Vibration
- The wedges are kept at a fix temp and/or controlled by the software to follow a temperature protocol
- All I/O can be routed from the two slots to an external device outside of the Chamber to drive the I/O
- The backplane provides the break out

## **Benefits**

- Rugged construction suitable for automating testing in the chamber and during Shock/Vibration
- Qualified to MIL-STD-810 for Temperature, Humidity, Salt Fog and Shock. Qualified to MIL-STD167 for Vibration
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

**OpenVP** 



THE POWER OF VISION

# VTX997

The VTX997 is a VPX rugged chassis with two 3U VPX conduction cool slots.

The VTX997 backplane is designed specifically based on the VPX Payload modules.

## **Power Supplies**

Power is provided via external power supply.

## **Cooling and Temperature Sensors**

The VTX997 cooling is done thru the wedge locks. The wedge locks are set to a fix temperature or follow a temperature protocol. There are total of 16 temp sensors that monitor the wedge temperature and keep the wedge at a set temperature.

The VTX997 is front to back cooling with variable speed fan based on the wedge temperature set.

### Backplane

The backplane is routed per customer requirement as well as the I/O breakout.

## I/O

The I/O from each slot is routed to connectors so they could be monitored from outside of the environmental chamber and/or shock/Vibration table.

### **Health Management**

The module also routes its IPMBA/B to a connector so an external health management could monitor each slot Sensor Data Records (SDR).

Figure 1: VTX997 Front View

Figure 2: VTX997 Rear View

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## **Backplane Connections**



Figure 3: VTX997 Backplane Connections

## Specifications

| Architecture   |  |  |  |
|----------------|--|--|--|
| Physical       | Dimensions   | Height:  |  |
|                |  | Width:   |  |
|                |  | Depth:   |  |
| Standards      |  |  |  |
| VPX            | Туре   | VITA 46.0 Baseline Specification dual slot conduction cool                             |  |
| Configuration  |  |  |  |
| Power          | VTX997   | Dependent on Payload Configuration   |  |
| Environmental  |  | Based on the Payload Module (VTX997 can operate from -45° to 85° degrees               |  |
| Cooling        |  | Platform Supplied Cooling – front to back and the wedge is kept at the set Temperature |  |
| Other          |  |  |  |
| MTBF           | Calculated IAW MIL Hand book 217-F. Based on Order Option. Contact VadaTech sales for details. |  |  |
| Certifications | Designed to meet FCC, CE and UL certifications, where applicable                               |  |  |
| Standards      | VadaTech is certified to both the ISO9001:2015 and AS9100D standards                           |  |  |
| Warranty       | One (1) year, see VadaTech Terms and Conditions  |  |  |

### 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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

## Ordering Options

## VTX997 – ABC-000-GHJ

| A = Routing Between Two Slots and I/O Breakout                                   | G = VPX Connector Type  |
|--|---|
| 0 = Per Figure 3<br>1 = Reserved<br>2 = Reserved<br>3 = Reserved<br>4 = Reserved | 0 = Standard 50u Gold Rugged<br>1 = KVPX Connectors<br>2 = 50u Gold Rugged high speed (25Gbaud) |
|  |   |
|  |   |
|  | J = Conformal Coating   |
|  | 0 = No coating<br>1 = Humiseal 1A33 polyurethane<br>2 = Humiseal 1B31 acrylic                   |

## **Related Products**

VPX551



VPX980



- Dual Kintex UltraScale™ XCKU115
- 16 GB of 64-bit wide DDR4 Memory to each FPGA
- Rear fiber I/O via Six VITA 66.5 x12 Modules (Tx or Rx)
- 3U VPX module Intel 5th Generation Xeon-D SoC
- PCIe Gen3 x16 (dual x8 or quad x4)
- Quad 10GbE XAUI
- 3U VPX Chassis Manager Module compliant to VITA 46.11 w/Quad Core ARM Freescale processor
- One GB DDR3 memory with FRAM for log messages
- 32 GB of Flash, 8 GB of NAND Flash

## Contact

### VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014 Phone: +1 702 896-3337 | Fax: +1 702 896-0332

#### Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

### VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

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