

# VTX352

## Four Slot VPX Harden Chassis for 6U VPX Modules with Dual Power Entry Modules



VTX352

## Key Features

- VPX Harden Chassis for four slot 6U VPX Modules
- VITA 66.5 for Optics and VITA67.2 for RF
- Dual VPX Power Entry Module (PEM)
- Conduction Cooled modules per VITA 48
- All I/O are via MIL-STD38999 connectors

## Benefits

- Standard VPX Power Module slots
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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# VTX352

The VTX352 is a four slot 6U VPX chassis for conduction cooled modules. All the I/O are via MIL-STD38999 style and can be designed to customer specification. The current design has VITA 66.5 on slot one and VITA 67.2 on slots two, three and four.

## Power Supply

The VTX352 has a dual slot 6U VPX Power Module Entry Module (PEM).

## Cooling

The chassis needs external airflow for cooling.

## Backplane

The current backplane design (option A = 1 in the ordering option) slot one takes VadaTech VPX011 Ethernet Switch, slots two and four takes VadaTech VPX555 modules and slot two takes VadaTech VPX556 module. The backplane can be routed to customer specifications and slot profile of the modules. The power modules are VadaTech VPX028 with AC universal input.



Figure 1: VTX352

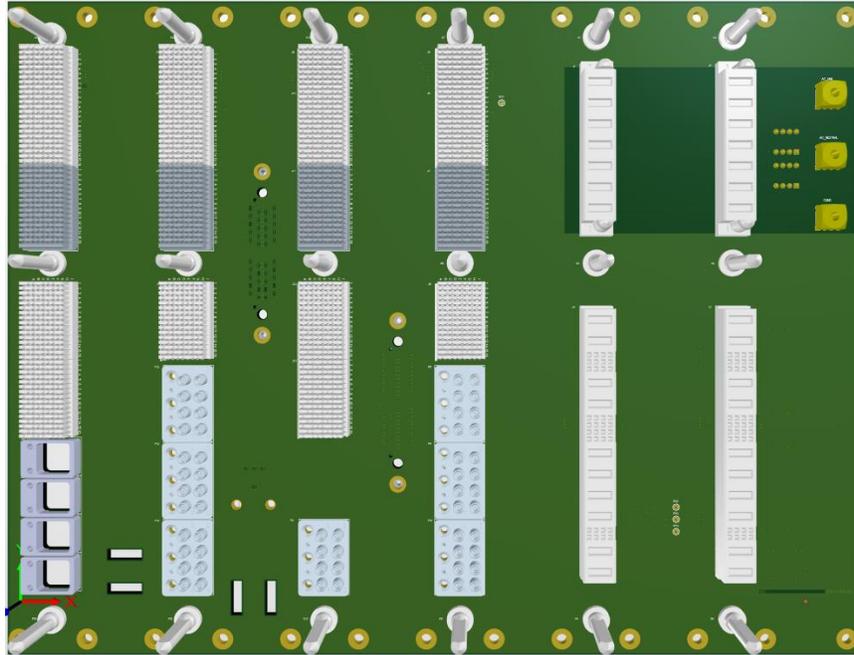


Figure 2: VTX352 Front View



Figure 3: VTX352 Rear View (Open)

# Chassis Layout



*Figure 4: VTX352 Chassis Slot profile example  
with slot one having VITA66.5 and slots two/three/four with VITA67.2  
with Dual VPX Power Entry Modules*

# Specifications

| Architecture   |            |  |
|----------------|------------|--|
| Physical       | Dimensions | Height: 14.81"   |
|                |            | Width: 10.82"  |
|                |            | Depth: 14.59"  |
|                |            | Weight: 39.5 lbs   |
| Type           | VPX        | Four 6U Payload Slots up to 1.0" pitch and two Power Slot            |
| Standards      |            |  |
| VPX            | Type       | VITA 46.0 Baseline Specification                                     |
| Configuration  |            |  |
| Power          | VTX352     | Standard 6U VPX Power  |
| Environmental  |            | See <a href="#">Ordering Options</a>                                 |
| Cooling        |            | Conduction Cool with airflow over the chassis                        |
| 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 ISO9001:2015 and AS9100D standards |
| Warranty       |            | One (1) year, see <a href="#">VadaTech Terms and Conditions</a>      |

OpenVPX allows for a wide range of pin assignments and use cases. Prior to purchasing VadaTech products as standalone items (i.e., not part of an integrated platform) please consult with VadaTech on the system architecture to ensure compatibility.

## 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

## VTX352 – A0C-000-GHJ

|   |  |   |
|---|--|---|
| <b>A = Customer Backplane profile*</b><br>1 = Slot one VITA66.5 and slots 2/3/4 VITA 67.2<br>2 = Reserved<br>3 = Reserved |  | <b>G = Applicable Slot Profile</b><br>0 = 5HP, IEEE 1101.10<br>1 = 5HP, VITA 48.1                             |
|   |  | <b>H = Environmental</b><br>See <a href="#">Environmental Specification</a>                                   |
| <b>C = VPX Connector Type</b><br>0 = Standard 50u Gold Rugged<br>1 = KVPX Connectors<br>2 = High speed 50u Gold Rugged    |  | <b>J = Conformal Coating</b><br>0 = No coating<br>1 = Humiseal 1A33 polyurethane<br>2 = Humiseal 1B31 acrylic |

Notes: \*Please contact VadaTech for specific part numbers

## Environmental Specification

| Option H              |  |  |  | Conduction Cooled | H = 4                 |
|-----------------------|--|--|--|-------------------|-----------------------|
| Operating Temperature |  |  |  |                   | CC4* (-40°C to +85°C) |
| Storage Temperature   |  |  |  |                   | C3* (-50°C to +100°C) |
| Operating Vibration   |  |  |  |                   | V3 (0.1 g2/Hz max)    |
| Storage Vibration     |  |  |  |                   | OS2* (40g)            |
| Humidity              |  |  |  |                   | 95% non-condensing    |

## Related Products

VPX518



- AMC FPGA carrier for FMC per VITA 57
- Xilinx Zynq-7000 FPGA in FFG-900 package (XC7Z100 or XC7Z045) with embedded ARM®
- Supported by DAQ Series™ data

VPX592



- 3U FPGA carrier for FPGA Mezzanine Card (FMC) per VITA 46 and VITA 57
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- High-performance clock jitter cleaner

VPX599



- 3U FPGA Dual DAC and Dual ADC per VITA 46
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- Dual ADC 12-bit @ 6.4 GSPS

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