

# VTX883

## 2U VPX Chassis with three 3U VPX Slots

VTX883

### Key Features

- 2U Open VPX rackmount system platform
- Horizontal slots
- Up to three 3U VPX payload slots
  - Rear Transition Module (RTM) per slot
- Compatible with 0.8-inch, 0.85-inch and 1.0-inch modules
- Integrated Chassis Manager
- Redundant cooling in push/pull
- Front to back cooling
- AC Universal 300W
- +28V (+16V to +45V) DC 500W
- +48V (+36V to +75V) DC 500W

### Benefits

- All designs are by VadaTech
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader

**OpenVPX™**



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# VTX883

The VTX883 is a 2U VPX chassis with three 3U VPX slots. The chassis can accept 0.8-inch, 0.85-inch and 1.0-inch pitch modules.

## Power Supplies

The VTX883 has a 300W AC universal input, 500W +28V and +48V power to the chassis.

## Cooling and Temperature Sensors

The VTX883 is designed to meet the ANSI/VITA 65 standard. It provides front to back cooling. The Chassis has a removable Air Filter at the front.

## Backplane

The backplane provides three 3U VPX payload slots in, fully compliant to VITA 46.0 baseline specification. Also, additional I/O support to the rear, compliant to VITA 46.10 and OpenVPX VITA 65. VadaTech can modify the backplane to meet customer requirement.

## Chassis Manager (Health Management)

The Chassis provides option for Chassis Manager which is to VITA46.11 with Tier-2 support with VadaTech VT040 fourth generation.

## RTM Module

The VTX883 provides RTM to each of the three slots.

*Figure 1: VTX883 Front View*

*Figure 2: VTX883 Rear View with LC Style*

# Backplane Connections

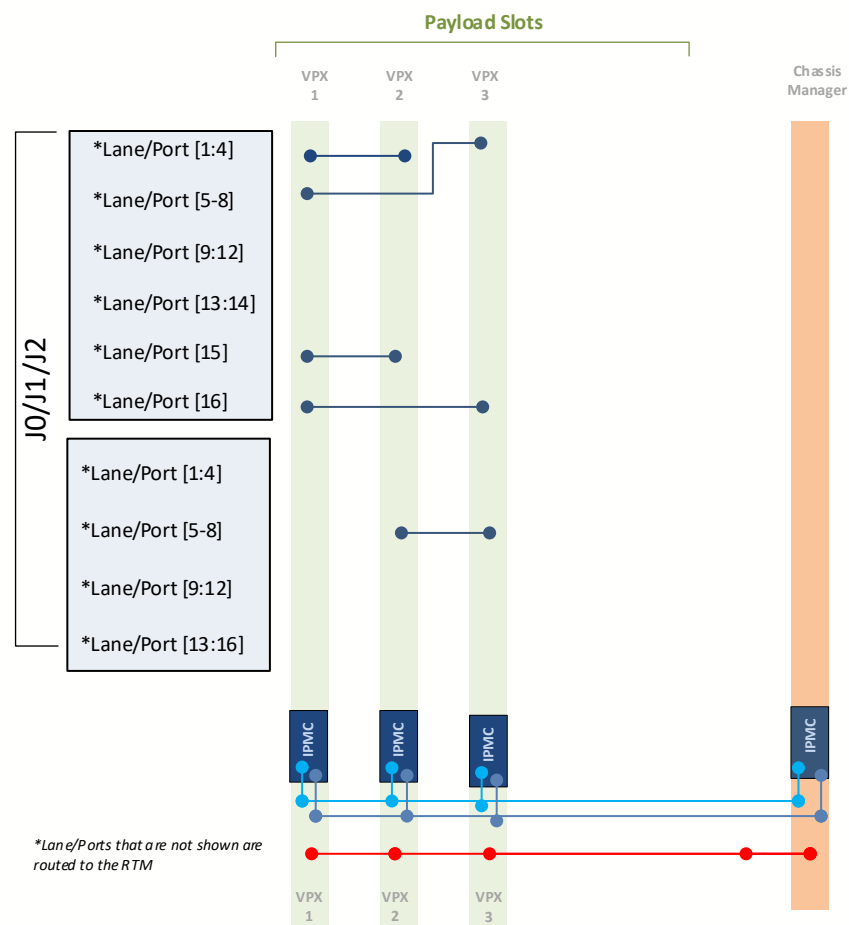


Figure 3: VTX883 Backplane Connections

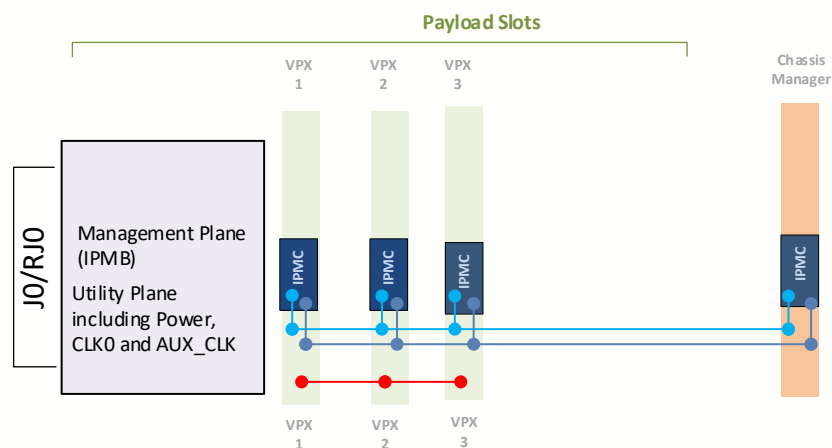


Figure 3A: VTX883 Backplane Connections

VadaTech can also design additional VITA standard backplane profiles for customer specific applications. Please contact your local sales team for more information.

# Chassis Layout

*Figure 5: VTX883 Chassis Layout - Front View*

*Figure 6: VTX883 Chassis Layout - Rear View*

# Specifications

Architecture		
Physical	Dimensions	Height: 2U
		Width: 19"
		Depth: 12.5"
		Weight: TBD
Type	VPX	3 Payload Slot up to 1.0" pitch
Standards		
VPX	Type	VITA 46.0 Baseline Specification
Configuration		
Power	VTX883	300W AC universal; 500W DC +28V; 500W +48V
Environmental		See <a href="#">Ordering Options</a>
Cooling		Front to back
Power Limit	Payload for three slots	240W AC; 440W 28V; 440W 48V Total
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

## VTX883 – ABC-0E0-GHJ

<b>A = Power Supply</b>		<b>G = Module Type</b>
0 = AC Universal 300W 1 = DC +16V to +36V (Typical +28V DC) 500W 2 = DC +36 to +75V (Typical +48V DC) 500W		0 = Reserved 1 = VITA 48.1
<b>B = Backplane routing</b>	<b>E = Chassis Manager</b>	<b>H = Environmental</b>
0 = Figure 3 1 = Figure 3A (independent) 2 = Reserved 3 = Reserved 4 = Reserved	0 = Not included 1 = With VITA46.11 Tier two support 2 = Reserved	See <a href="#">Environmental Specification</a>
<b>C = VPX Connector Type</b>		<b>J = Conformal Coating</b>
0 = High speed 50u Gold Rugged (>25G)		0 = No coating 1 = Humiseal 1A33 polyurethane 2 = Humiseal 1B31 acrylic

## Environmental Specification\*

Option H	H = 0	H = 1
Operating Temperature	AC1* (-5°C to +55°C)	AC3* (-40°C to +70°C)
Storage Temperature	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)
Operating Vibration	V2* (0.04 g2/Hz max)	V2* (0.04 g2/Hz max)
Storage Vibration	OS1* (20 g)	OS1* (20 g)
Humidity	95% non-condensing	95% non-condensing

### Notes:

\*Please contact VadaTech Sales for other specification

## 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

# Contact

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