VTX881

2U VPX Chassis, Three 6U Slots with RTM Support

VTX881

Key Features

- 2U Open VPX rackmount system platform
- Horizontal slots
- Dedicated Switch/management slot
- Up to two 6U VPX payload slots
- Compatible with 0.8-inch, 0.85-inch and 1.0-inch modules
- Support for Rear Transition Modules (RTMs)
- Redundant cooling in push/pull side to side airflow configuration
- Optional JTAG Switch Module (JSM)

Benefits

- 800W AC or 650W DC Power Input
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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The VTX881 is a 2U VPX chassis with three 6U VPX slots. The chassis can accept 0.8-inch, 0.85-inch and 1.0-inch pitch modules and is ideal for commercial deployment.

Power Supplies

The VTX881 has a single AC input power supplies to provide 800W or -48V DC 650W. The chassis supplies 200W/slot and the AC input is universal.

Cooling and Temperature Sensors

The VTX881 is designed to meet the ANSI/VITA 65 standard. It provides right to left push/pull cooling (18 CFM per payload slot at 0.24 in-H2O @ 5000 feet) to the VPX payload and RTM slots. The Chassis has a removable Air Filter at the front.

Backplane

The backplane provides two 5 HP VPX payload slots in a star configuration, fully compliant to VITA 46.0 baseline specification with additional support to the RTMs, compliant to VITA 46.10 and OpenVPX VITA 65.

JSM

There is an optional JTAG Switch Module to provide JTAG access to the rear.

Figure 1: VTX881 Front View

Figure 2: VTX881 Rear View

Backplane Connections

Payload Slots

Logical Slot Numbers (physical slot numbers may be different)

| | VPX 1 | VPX 2 | VPX 3 |

Expansion Plane (DFP)

Data Plane (FP)

DATA PLANE | DATA PLANE | DATA PLANE

Control Plane (UTP)

CONTROL PLANE | CONTROL PLANE | CONTROL SWITCH

Management Plane (IPMB)

IPMC | IPMC | IPMC

Utility Plane including Power

Logical Slot Numbers (physical slot numbers may be different)
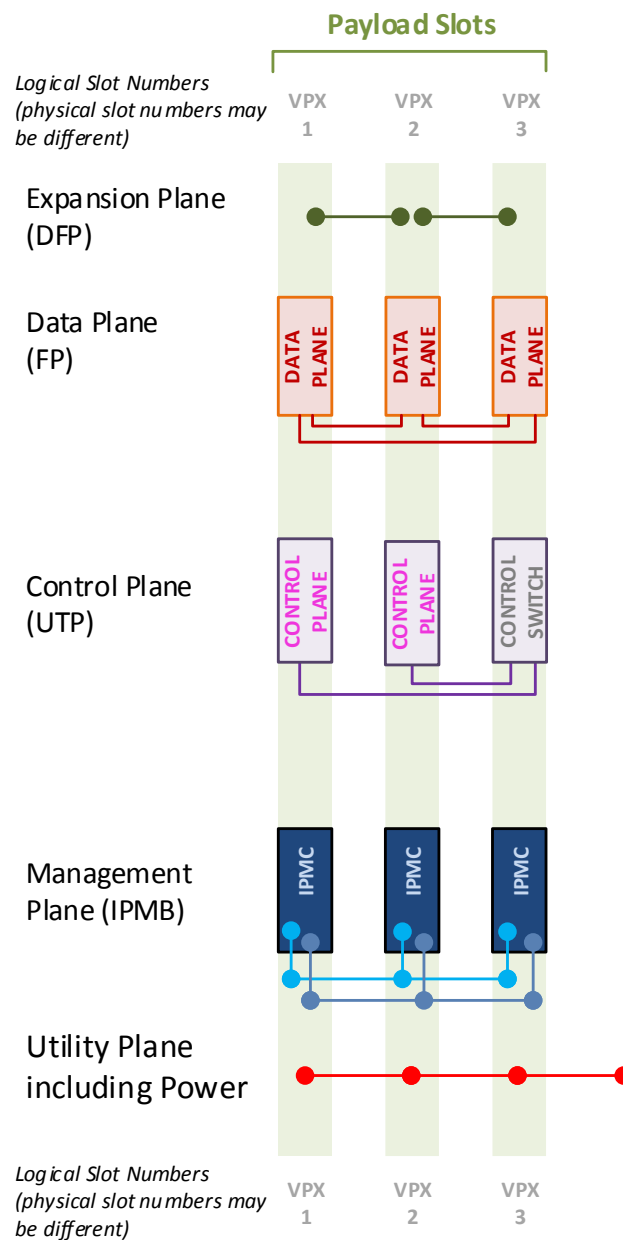
VPX 1 | VPX 2 | VPX 3

Figure 3: VTX881 Backplane Connections

The initial offering on VTX881 is based on backplane profile BKP6-CEN03_15.2.2-n. 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 4: VTX881 Chassis Layout - Front View

Figure 5: VTX881 Chassis Layout - Rear View

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Specifications

Architecture			
Physical	**Dimensions**	Height: 2U	
		Width: 19"	
		Depth: 12.5"	
		Weight: TBD	
Type	**VPX Shelf**	2 Payload Slot up to 1.0" pitch and a dedicated Switch/management slot	
Standards			
VPX	**Type**	VITA 46.0 Baseline Specification	
Configuration			
Power	**VTX881**	800W AC Input, 200W/slot or -48V DC 650W	
Environmental		See Ordering Options	
Cooling		Right to left	
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 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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VTX881 – A0C-D00-0HJ

A = Power Supply	D = JSM	
0 = AC 800W 1 = -48V DC 650W	0 = No JSM 1 = JSM	

		H = Environmental
		See Environmental Specification

C = VPX Connector Type		J = Conformal Coating
0 = Standard 50u Gold Rugged 1 = KVPX Connectors		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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