VTX870

7U VPX Benchtop Chassis, Six 3U Slots with RTM Support

VTX870

Key Features

- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 3U 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 bottom-to-top airflow configuration
- Front panel system health display
- Optional JTAG Switch Module (JSM)
- Removable side panels for ease of board probing

Benefits

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

OpenVPX™

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The VTX870 is a VPX chassis with six 3U VPX slots. The chassis can accept 0.8-inch, 0.85-inch and 1.0-inch pitch modules. The chassis is ideal for commercial deployment. The side panels on both the front and rear slots are removable for ease of probing and debugging a module.

Power Supplies

The VTX870 has a single AC input power supplies to provide 800W or 650W DC input. The chassis supplies 95W/slot and the AC input is universal.

Cooling and Temperature Sensors

The VTX870 provides cooling to the VPX slots designed to meet ANSI/VITA 65 providing 18 CFM per slot at 0.24 in-H2O @ 5000 feet. The VTX870 provides push/pull cooling to the RTM slots.

Backplane

The backplane provides five 3U 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 VITA65.

JSM

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

Figure 1: VTX870 Chassis Front View

Figure 2: VTX870 Chassis Rear View

Backplane Connections

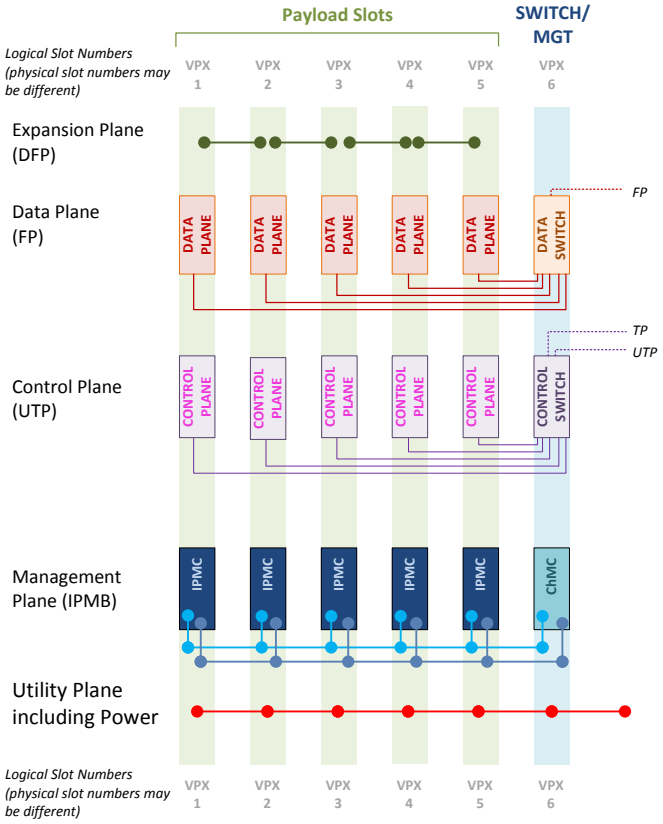

Figure 3: VTX870 Backplane Connections

The initial offering on VTX870 is based on backplane profile BKP3-CEN07_15.2.3-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: Chassis Layout - Front

Figure 5: Chassis Layout - Rear

Specifications

Architecture		
Physical	**Dimensions**	Height: 7U
		Width: 8.45”
		Depth: 12.5”
		Weight: TBD lbs.
Type	**VPX Shelf**	5 Payload Slots up to 1.0” pitch with a dedicated Switch/management slot
Standards		
VPX	**Type**	VITA-46.0 Baseline Specification
Configuration		
Power		800W AC input or -48V DC
Environmental		See Ordering Options
Cooling		Bottom to Top
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 ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of VPX products including chassis platforms, shelf managers, VPX modules, Switch and Payload Boards, 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

VTX870 – A00-D00-0HJ

A = Power supply	D = JSM	
0 = 800W (AC) 1 = 650W (-48V DC)	0 = Not included 1 = Included	
		H = Environmental
		See Environmental Specification* table option H description
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 polyurethane 2 = Humiseal 1B31 acrylic

Environmental Specification*

Option H	H = 0	
Operating Temperature	-5°C to +55°C	
Storage Temperature	-40°C to +85°C	
Operating Vibration	0.04 g2/Hz max	
Storage Vibration	20g	
Humidity	95% non-condensing	

* 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 @ 6.4GSPS 12-bits

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