

VTX875

10U VPX Benchtop Chassis, Six 6U Slots with RTM Support



VTX875

Key Features

- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 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 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



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OpenVPX™



VTX875

The VTX875 is a VPX chassis with six 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. The side panels on both the front and rear slots are removable for ease of probing and debugging a module.

Power Supplies

The VTX875 has a single AC input power supplies to provide 800W AC or 650W DC input. The chassis supplies 95W/slot and the AC input is universal.

Cooling and Temperature Sensors

The VTX875 is designed to meet the ANSI/VITA 65 standard. It provides bottom to top push/pull cooling (18 CFM per slot at 0.24 in-H₂O @ 5000 feet) to the VPX payload and RTM slots.

Backplane

The backplane provides five 6U 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 front.



Figure 1: VTX875 Front View



Figure 2: VTX875 Rear View

Backplane Connections

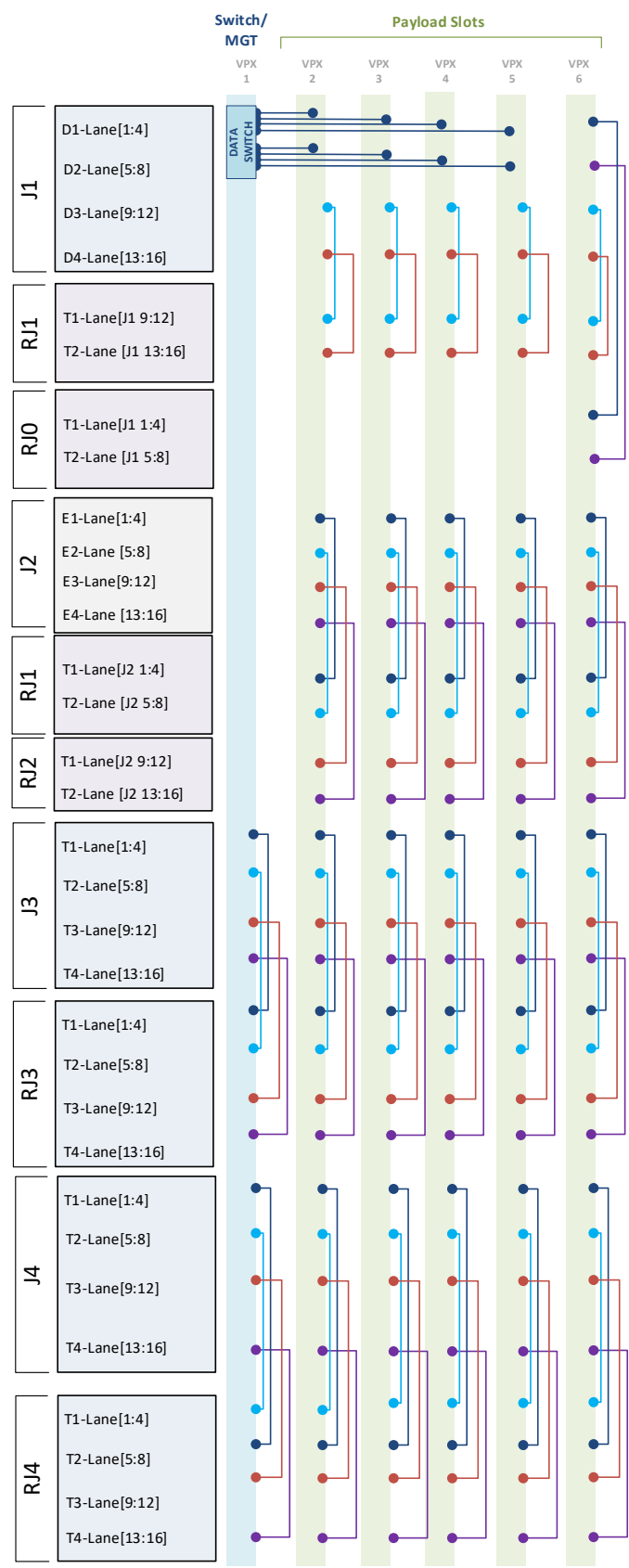


Figure 3: VTX875 Backplane Connections J1-J4

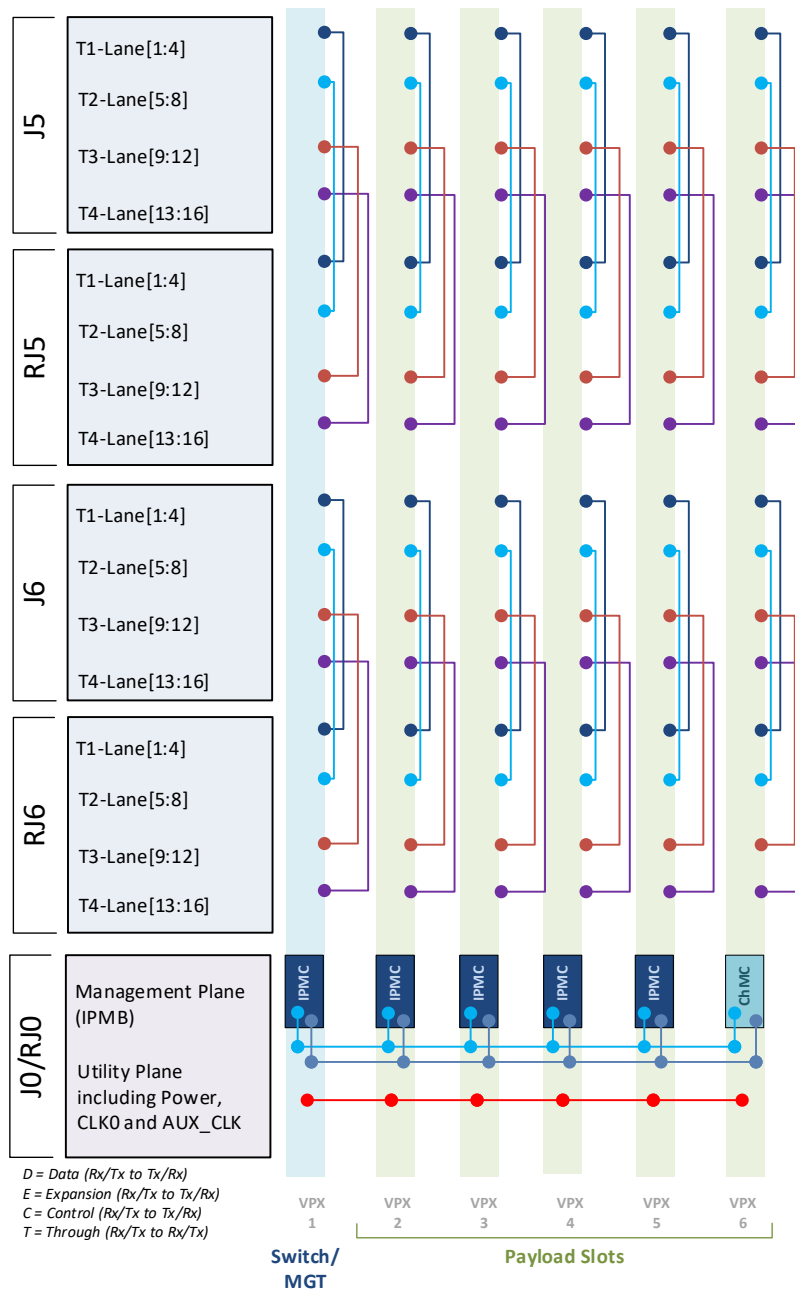


Figure 4: VTX875 Backplane Connections J5-J6 and J0

The initial offering on VTX875 is based on backplane profile BKP3-CEN06_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

VPX 1	VPX 2	VPX 3	VPX 4	VPX 5	MGT	JSM
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Figure 5: VTX875 Chassis Slots

Specifications

Architecture		
Physical	Dimensions	Height: 17.50" (10U)
		Width: 5.50"
		Depth: 11.25" (12.75" Max Measured from Local Handle Max Protrusions)
		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	VTX875	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 ISO9001:2015 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

VTX875 – A0C-D00-0HJ

A = Power Supply 0 = 800W (AC) 1 = 650W (-48V DC)	D = JSM 0 = No JSM 1 = JSM	
		H = Environmental See Environmental Specification
C = VPX Connector Type 0 = Standard 50u Gold Rugged 1 = KVPX Connectors		J = Conformal Coating 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

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