VTX865

11U VPX Chassis, Six 6U Slots with RTM Support

VTX865

Key Features

- 11U Open VPX rackmount system 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
- Option for conduction cool modules per VITA 48
- Support for Rear Transition Modules (RTMs)
- Redundant cooling in push/pull front-to-back airflow configuration
- Optional JTAG Switch Module (JSM)

Benefits

- Dual 800W AC or Dual 650W DC
- 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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VTX865

The VTX865 is an 11U 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 VTX865 has option for conduction cool modules per VITA 48 specification.***

Power Supplies

The VTX865 has dual AC input power supplies to provide 800W with redundancy (1+1) or DC -48V input 650W. The chassis supplies 200W/slot and the AC input is universal. Total power must be less than what power supply can support.

Cooling and Temperature Sensors

The VTX865 is designed to meet the ANSI/VITA 65 standard. It provides front to back 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 the 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 JSM to provide JTAG access to the front.

Figure 1: VTX865 Front View

Figure 2: VTX865 Rear View

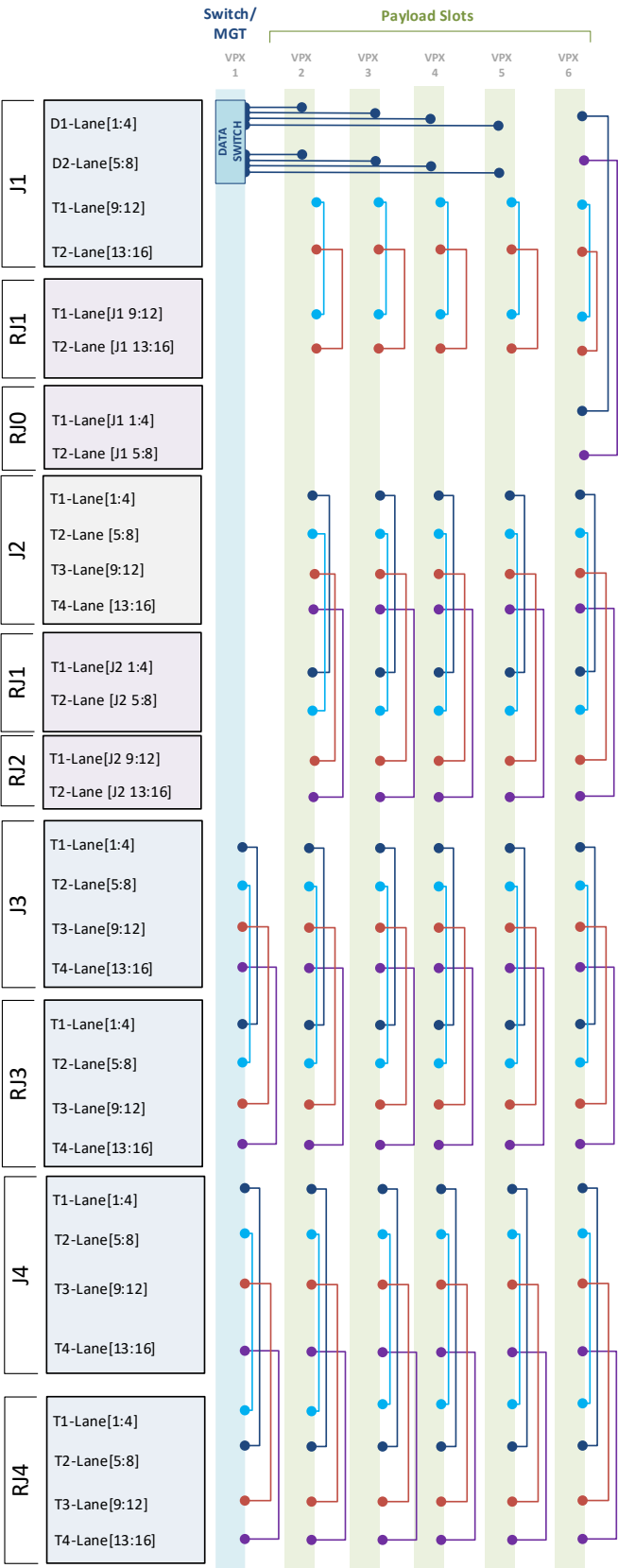info@vadatech.com | www.vadatech.com

Backplane Connections

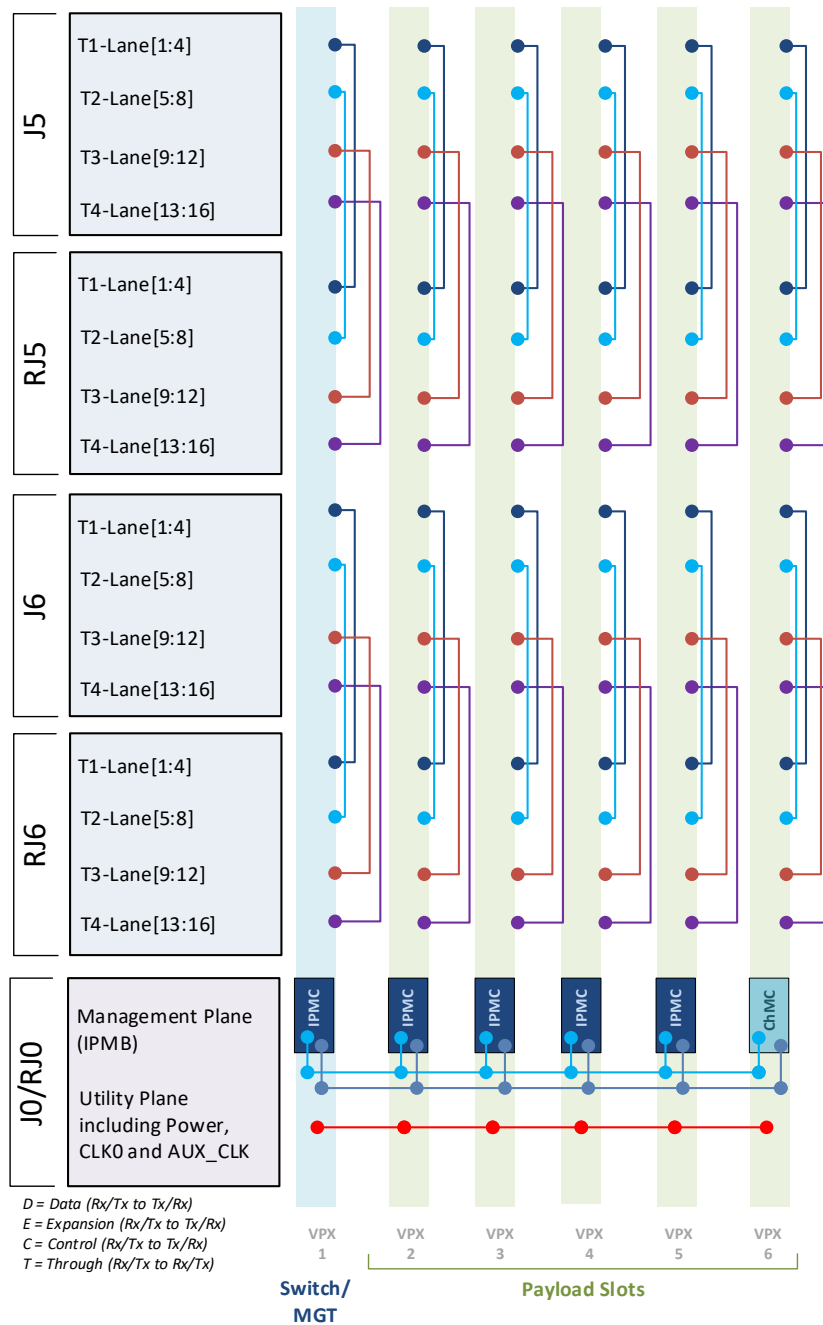*Figure 3: VTX865 Backplane Connections J1-J4ne Connections J1-J4*

Figure 4: VTX865 Backplane Connections J5-J6 and J0

The initial offering on VTX865 is based on backplane profile BKP6-CEN06_11.2.14-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

Figure 5: VTX865 Chassis Slots

VTX865 – 8U VPX Chassis, Six 6U Slots with RTM Support

Specifications

Architecture			
Physical	**Dimensions**	Height: 11U	
		Width: 8.5"	
		Depth: 12.5"	
		Weight: TBD	
Type	**VPX Shelf**	5 Payload Slot up to 1.0" pitch and a dedicated Switch/management slot	
Standards			
VPX	**Type**	VITA 46.0 Baseline Specification	
Configuration			
Power	**VTX865**	800W AC universal input, dual power supply with redundancy (or -48V DC 650W)	
Environmental		See Ordering Options	
Cooling		Front to Back	
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		

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

VTX865 – ABC-D00-0HJ

A = Power Supply	D = JSM	
0 = Single AC (800W) 1 = Dual AC (1+1, 1600W) 2 = Single DC -48V (650W) 3 = Dual DC -48V (1+1, 1300W)	0 = No JSM 1 = JSM	

B = Card Guide Type*		H = Environmental
0 = Air Cool 1 = Conduction Cool (VITA 48) 2 = Reserved		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

Notes: *Applies only to VPX module, RTM card guide is always standard/air-cooled

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

VPX007

- Versatile Layer 2 managed Ethernet switch
- Total of 24 Ports of 10GbE
- Up to eight SFP+ Ports on the front panel

VPX580

- Xilinx UltraScale+ XCZU19EG FPGA
- 8 GB of 64-bit wide DDR4 Memory (single bank) with ECC
- Dual FMC+ sites (16 SERDES to each) on a 6U VPX

VPX752

- 6U VPX module Intel 5th Generation Xeon-D SoC
- PCIe Gen3 x16 (dual x8 or quad x4)
- Quad 10GbE XAUI

Contact

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