VTX661

8U VPX Chassis, Twelve 3U Slots with RTM Support

VTX661

Key Features

- 8U Open VPX rackmount system platform
- Dual Dedicated Switch/management slots
- Up to ten 3U VPX payload slots (with two slots that can have up to 10 HP)
- Compatible with 0.8-inch, 0.85-inch and 1.0-inch modules
- Support for Rear Transition Modules (RTMs)
- Redundant cooling in push/pull front-to-back airflow configuration
- Optional JTAG Switch Module (JSM)

Benefits

- Up to three 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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VTX661

The VTX661 is an 8U VPX chassis with twelve 3U 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 VTX661 has three AC input power supplies to provide 1600W with redundancy (2+1). The chassis supplies 95W/slot and AC input is universal.

Cooling and Temperature Sensors

The VTX661 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 ten 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 JSM to provide JTAG access to the front.

Figure 1: VTX661 Front View

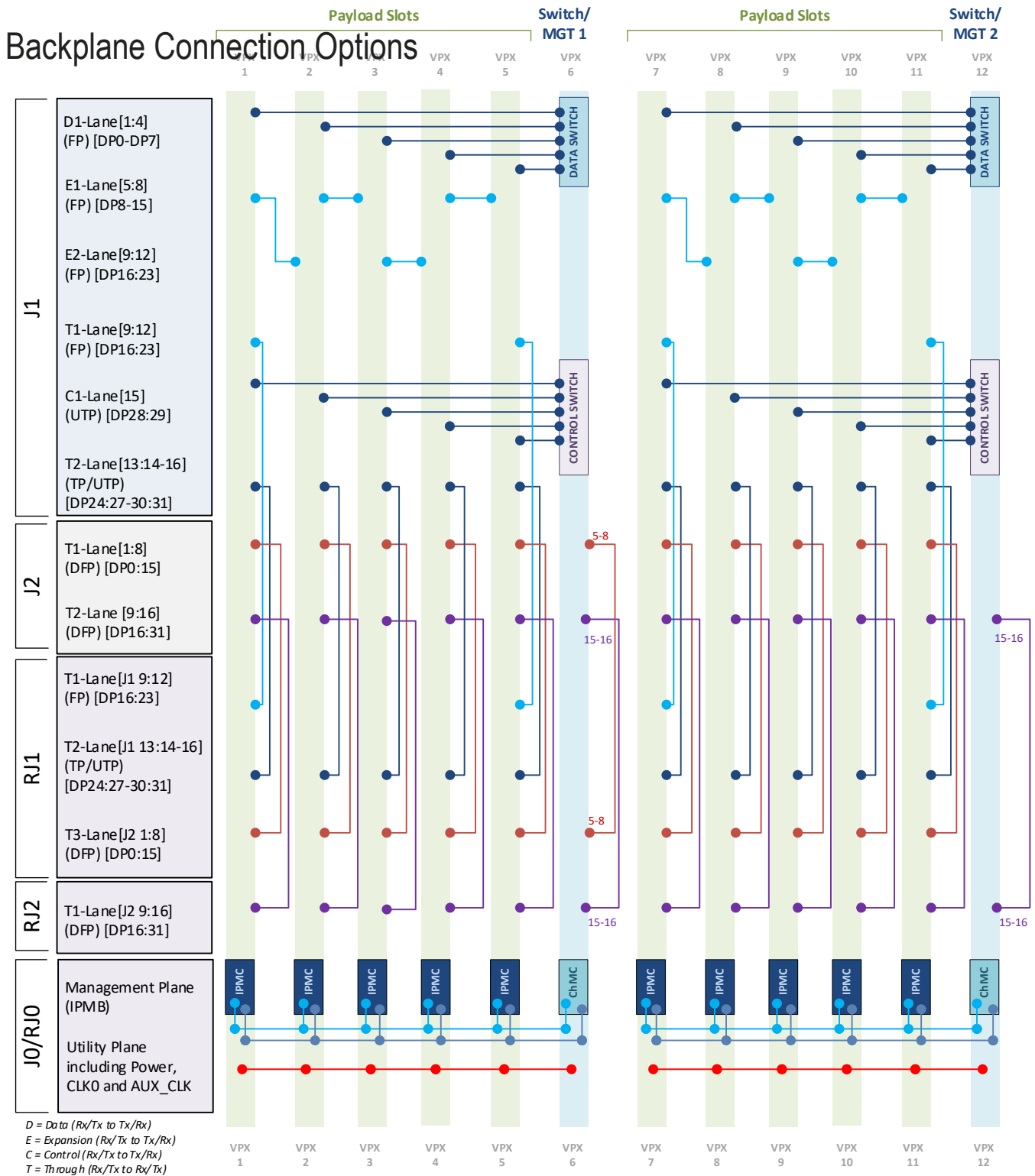*Figure 2: VTX661 Rear View*

Backplane Connection Options

Figure 3: VTX661 Backplane Connections (option F = 0)

The initial offering on VTX661 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.
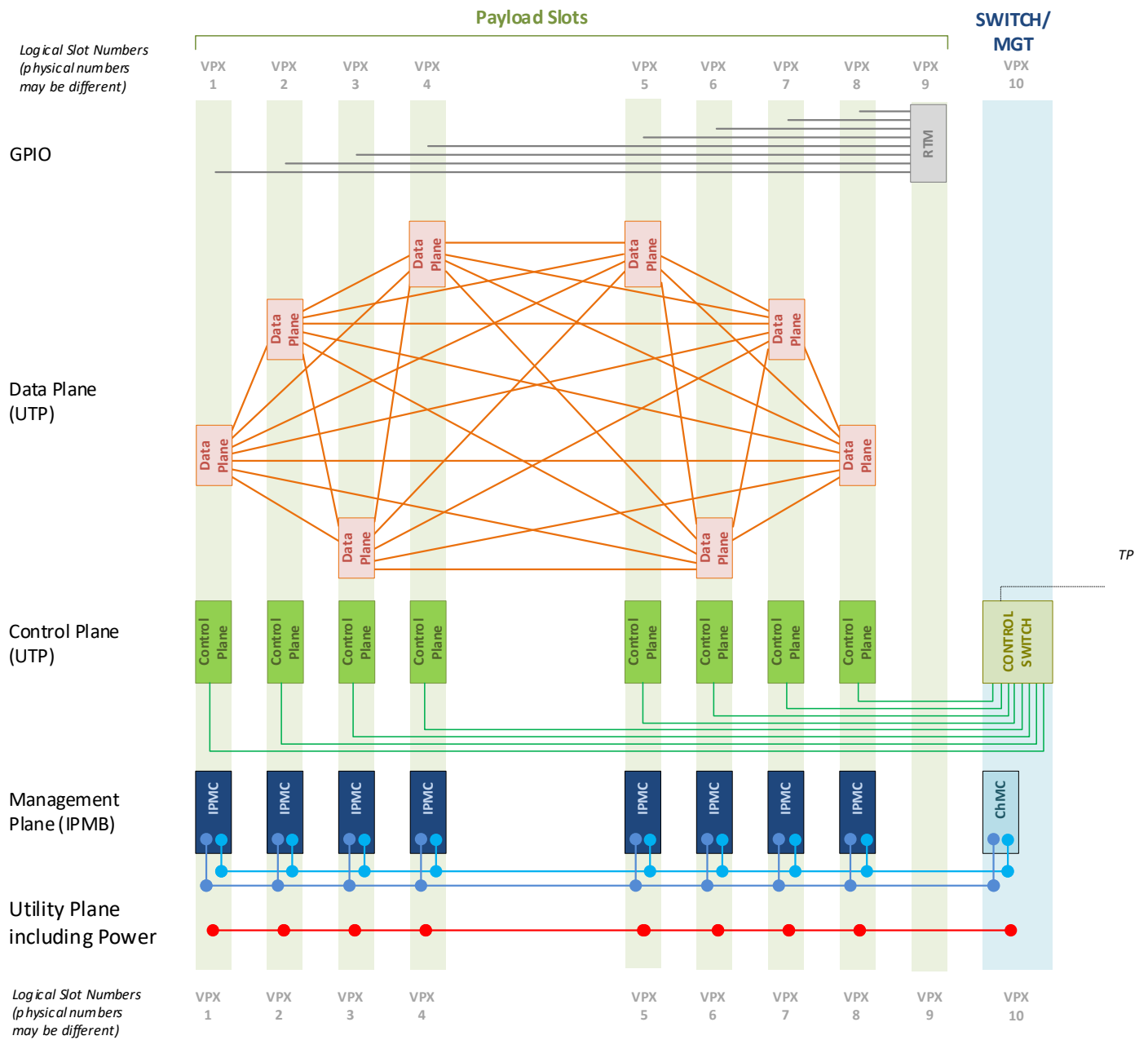
Figure 4: VTX661 Backplane Connections (option F = 1)

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Chassis Layout

Figure 4: VTX661 Chassis Layout - Front

Figure 5: VTX661 Chassis Layout – Rear

VPX 1	VPX 2	VPX 3	VPX 4	VPX 5	MGT 1	VPX 6	VPX 7	VPX 8	VPX 9	VPX 10	MGT 2	JSM

Figure 6: VTX661 Chassis Slots

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Specifications

Architecture			
Physical	**Dimensions**	Height: 8U	
		Width: 19”	
		Depth: 12.5”	
		Weight: TBD	
Type	**VPX Shelf**	10 Payload Slots up to 1.0” pitch and dual dedicated Switch/management slots	
Standards			
VPX	**Type**	VITA-46.0 Baseline Specification	
Configuration			
Power	**VTX661**	3 x 800W AC input 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		

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

VTX661 – A0C-D0F-0HJ

A = Power Supply	D = JSM	G = Applicable Slot Profile
0 = Single AC (800W) 1 = Dual AC (1+1, 1600W) 2 = Triple AC (2+1, 2400W) 3 = Single DC -48V (650W) 4 = Dual DC (1+1, 1300W) 5 = Triple DC (2+1, 1950W)	0 = No JSM 1 = JSM	0 = 5HP, IEEE 1101.10 1 = 5HP, VITA 48.1
		H = Environmental
		See Environmental Specification
C = VPX Connector Type	**F = Backplane Routing**	**J = Conformal Coating**
0 = Standard 50u Gold Rugged 1 = KVPX Connectors	0 = Per Fig 3 1 = Per Fig 4	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

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014
Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan
Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

info@vadatech.com | www.vadatech.com

Europe: EMCOMO Solutions AG

Industriestr. 10, 89231 Neu-Ulm, Germany
Phone: +49 731 8803510 | Fax: +49 731 88035129

vadatech@emcomo.de | www.emcomo.de

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