

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 800 W AC or 650 W 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. The chassis 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 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 VTX661 provides push/pull cooling to the 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 JTAG Switch Module to provide JTAG access to the front.



Figure 2: VTX661 Front View



Figure 1: VTX661 Rear View

Backplane Connections

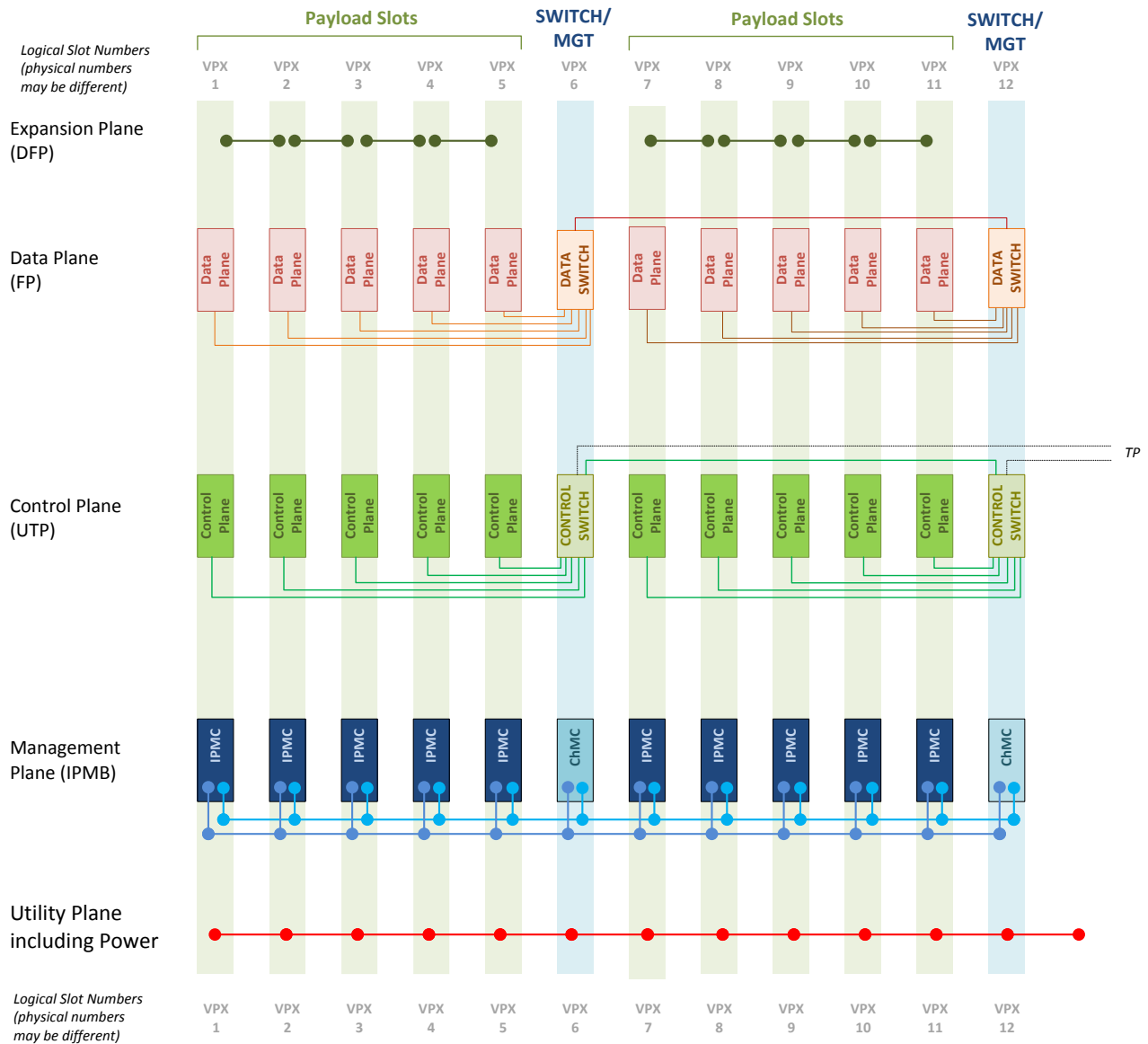


Figure 3: Backplane Connections

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.

Chassis Layout

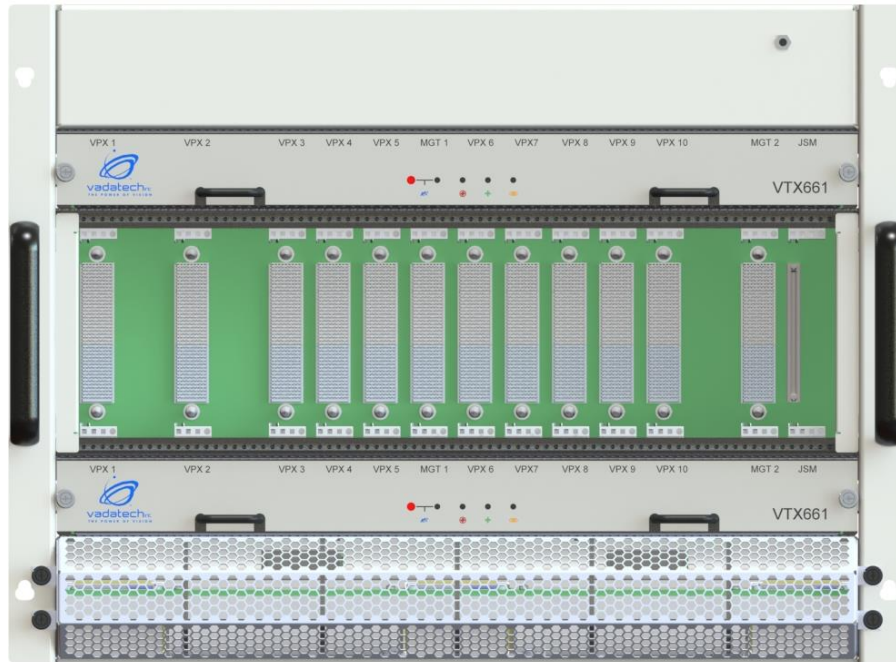


Figure 4: Chassis Layout - Front

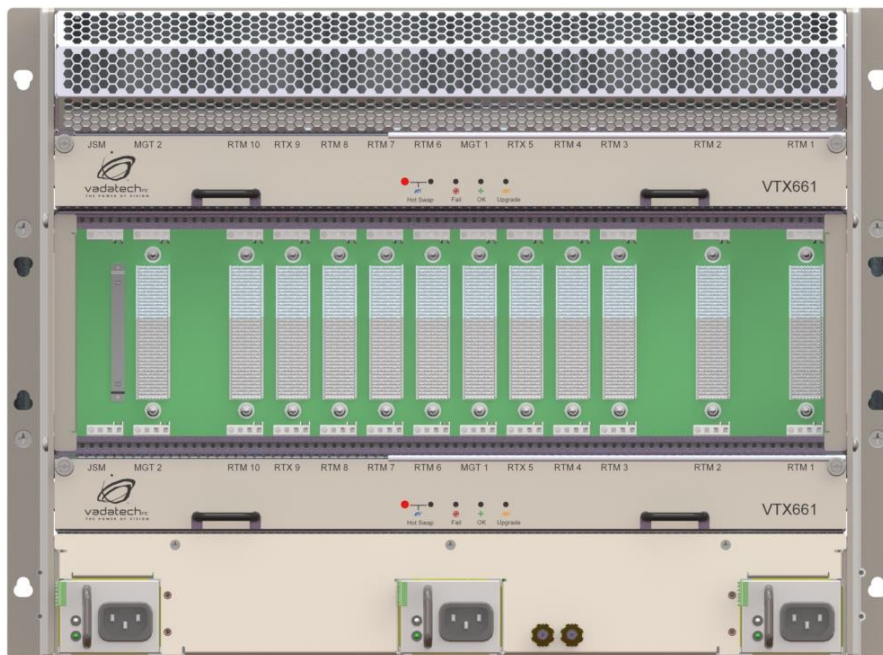


Figure 5: Chassis Layout - Rear

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 VTX66 VITA-46.0 Baseline Specification
Configuration	
Power	VTX661 3 x 800 W AC input with redundancy (or -48 V DC 650 W)
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 ISO9001:2000 and AS9100B:2004 standards
Warranty	Two (2) years

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 – A00-D00-0HJ

A = Power Supply	D = JSM	
0 = Single AC (800 W) 1 = Dual AC (1+1, 1600 W) 2 = Triple AC (2+1, 2400 W) 3 = Single DC -48V (650 W) 4 = Dual DC (1+1, 1300 W) 5 = Triple DC (2+1, 1950 W)	0 = Not included 1 = Included	
		H = Environmental
		See Environmental Specification Table below
		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 @ 6.4 GSPS 12-bits

Contact

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