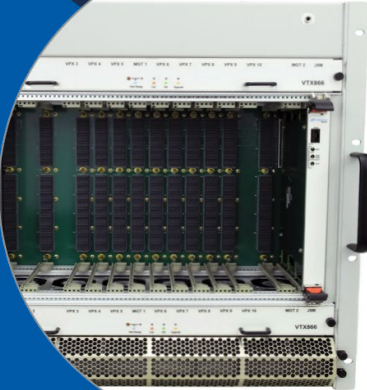


# VTX866

## 11U VPX Chassis, Twelve 6U Slots with RTM Support



VTX866

### Key Features

- 11U Open VPX rackmount system platform
- Dual Dedicated Switch/management slots
- Up to ten 6U 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



**vadatech**  
THE POWER OF VISION

**OpenVPX™**



# VTX866

The VTX866 is an 11U VPX chassis with twelve 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.

## Power Supplies

The VTX866 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 VTX866 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-H<sub>2</sub>O @ 5000 feet) to the VPX payload and RTM slots.

## Backplane

The backplane provides ten 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 VITA65.

## JSM

There is an optional JSM to provide JTAG access to the front.

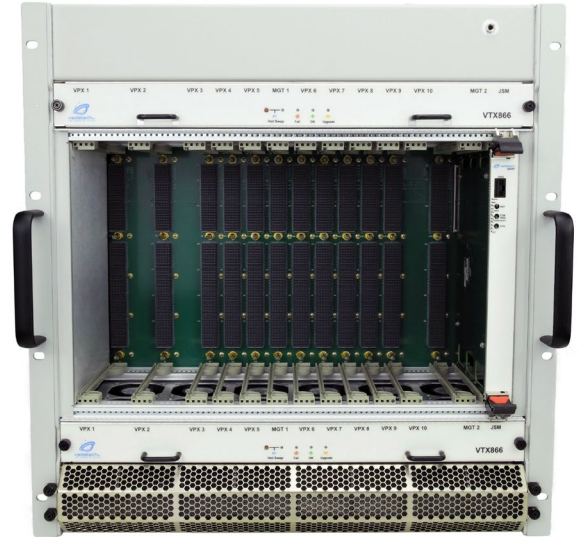


Figure 1: VTX866 Front View



Figure 2: VTX866 Rear View

# Backplane Connections J1-J4

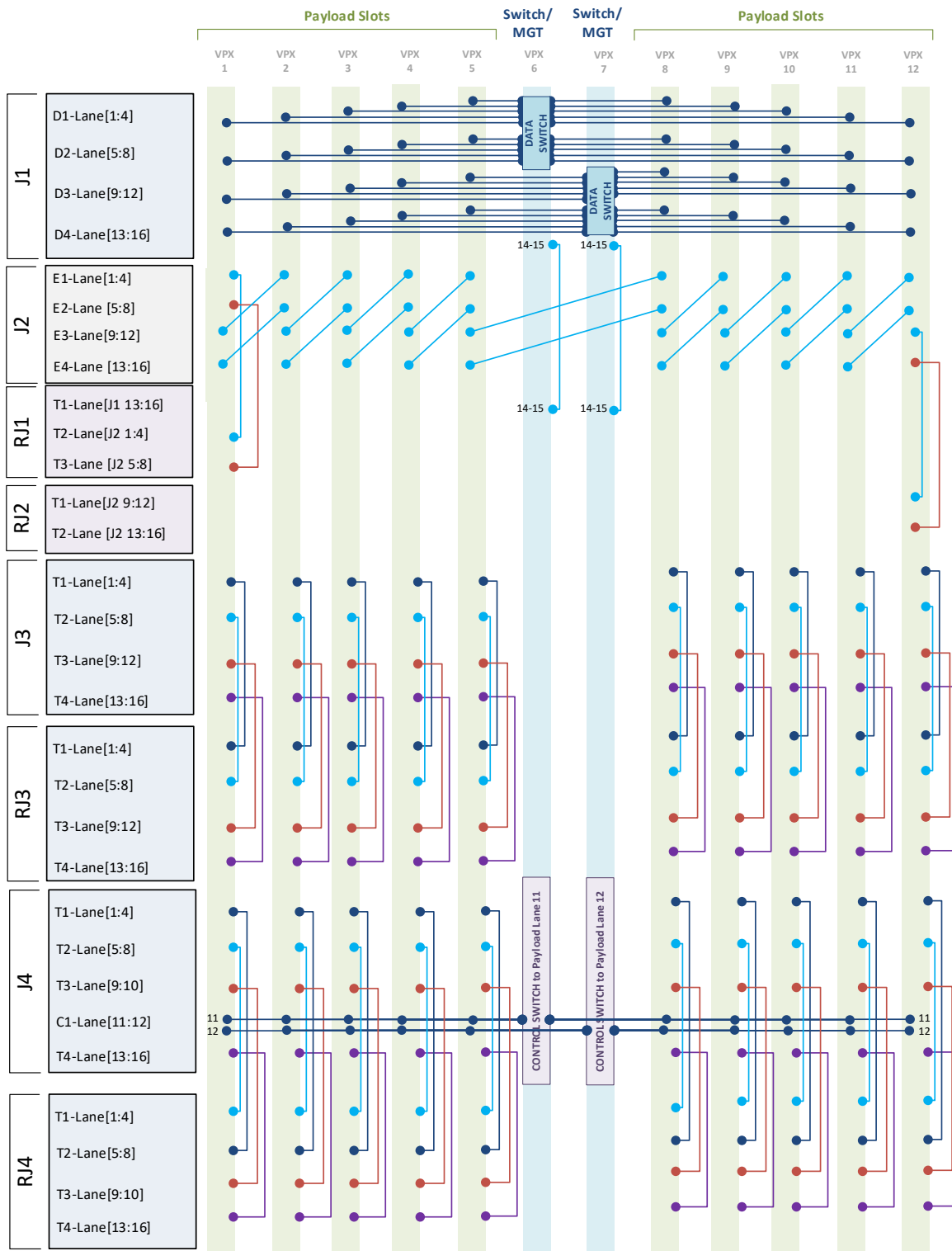


Figure 3: VTX866 Backplane Connections J1-J4

## Backplane Connections J0, J5-J6

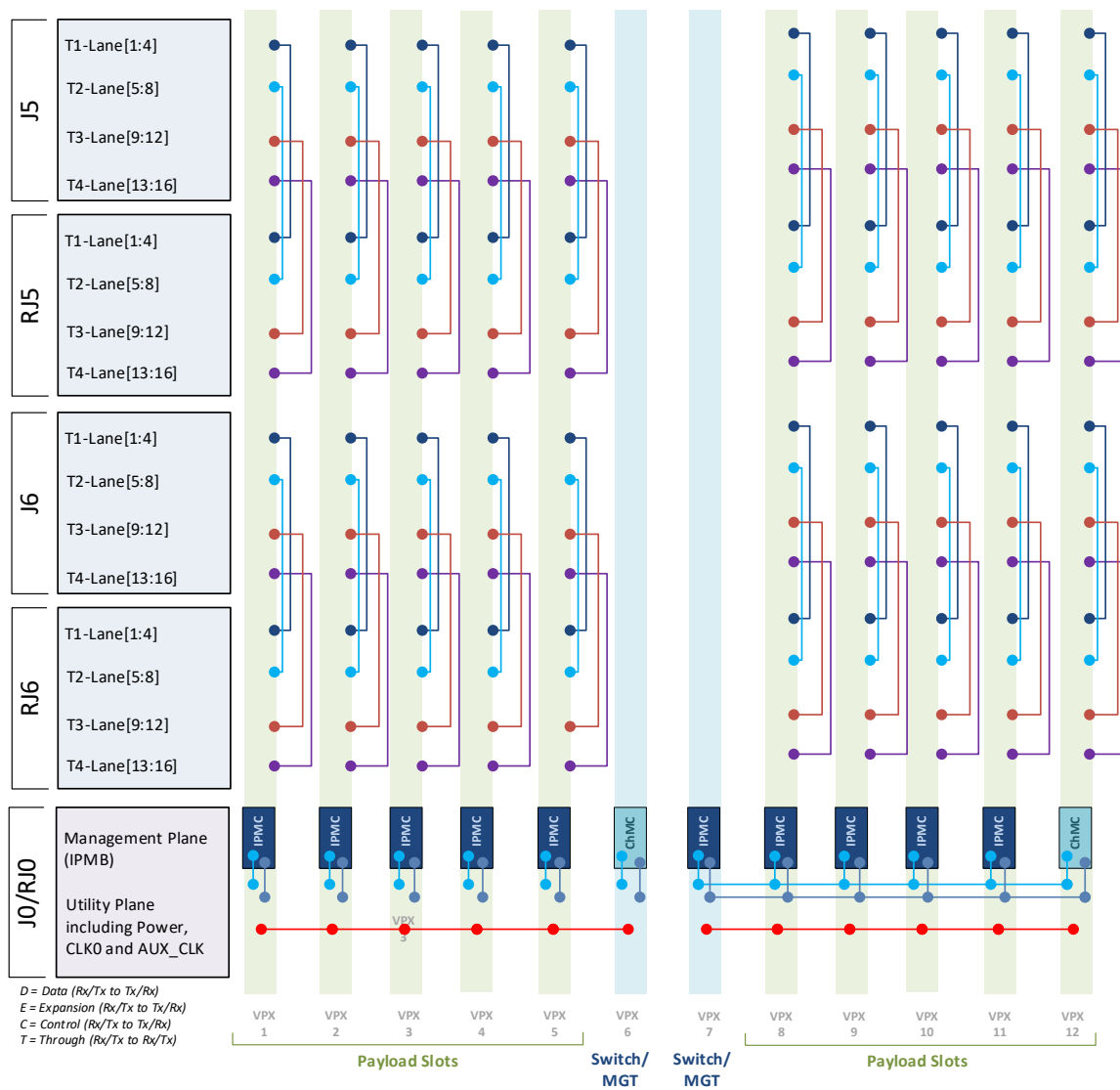


Figure 4: VTX866 Backplane Connections J5-J6 and J0

The initial offering on VTX866 is based on backplane profile BKP6-CEN12\_11.2.21-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 1	MGT 2	VPX 8	VPX 9	VPX 10	VPX 11	VPX 12
----------	----------	----------	----------	----------	-------	-------	----------	----------	-----------	-----------	-----------

Figure 5: VTX866 Chassis Slots

# Specifications

Architecture		
Physical	Dimensions	Height: 11U
		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	VTX866	3 x 800W AC input with redundancy (or -48V DC 650W)
Environmental		See <a href="#">Ordering Options</a>
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 <a href="#">VadaTech Terms and Conditions</a>	

## 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

## VTX866 – A0C-D00-0HJ

A = Power Supply	D = JSM	
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	
		H = Environmental
		See <a href="#">Environmental Specification</a>
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

## 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



- 6U OpenVPX Switch, 10GbE With Optional Health Management
- Versatile Layer 2 managed Ethernet switch
- Total of 24 Ports of 10GbE

VPX762



- 3U FPGA carrier for FPGA Mezzanine Card (FMC) per VITA 46 and VITA 57
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- High-performance clock jitter cleaner

VPX551



- 6U VPX Dual Kintex UltraScale™ XCKU115
- 16 GB of 64-bit wide DDR4 Memory to each FPGA
- Rear fibre I/O via VITA 66.5



# 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, Wenhua Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

[info@vadatech.com](mailto:info@vadatech.com) | [www.vadatech.com](http://www.vadatech.com)

## Europe: EMCOMO Solutions AG

Industriestr. 10, 89231 Neu-Ulm, Germany

Phone: +49 731 8803510 | Fax: +49 731 88035129

[vadatech@emcomo.de](mailto:vadatech@emcomo.de) | [www.emcomo.de](http://www.emcomo.de)

# Choose VadaTech

## We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



**vadatech**  
THE POWER OF VISION

## Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2018 VadaTech Incorporated. All rights reserved.  
DOC NO. 4FM737-12 REV 01 | VERSION 1.1 – AUG/18