

VTX951

**1U Open VPX Rackmount
Chassis with Intel Xeon E3
Processor, Two 3U Payload
Slots with RTM Support**



VTX951

Key Features

- 1U Open VPX Rackmount platform
- Intel® Xeon® Processor E3-1505M v6 (Kaby Lake)
- Two 3U VPX payload slots
- Serial Over LAN (SOL)
- 16 GB of DDR4 memory with ECC
- TPM (Trusted Platform Module)
- 64 GB of Flash memory
- Support for Rear Transition Modules (RTMs)
- Removable fan tray
- Shelf Manager for health management
- Redundant cooling in push/pull side-to-side airflow configuration

Benefits

- 500W Universal AC 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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The VTX951 is a 1U Open VPX chassis with two 3U VPX payload slots. The chassis has integrated Intel® Xeon® Processor E3-1505M v6 (Kaby Lake) with CM238 PCH. The processor base frequency is 3.0 GHz with max turbo frequency of 4.0 GHz. The VTX951 has on board 64GB of Flash for OS and application. Further the chassis has an on board layer 2 managed switch. Each VPX modules connect to the CPU via PCIe x8 Gen3. The Chassis comes with VadaTech third generation Chassis shelf manager to provide health management

Power Supplies

The VTX951 has an AC input power supply to provide 500W. The chassis supplies 85W/slot and the AC input is universal.

Cooling and Temperature Sensors

The VTX951 provides right to left cooling to the VPX slots designed to meet ANSI/VITA 65 providing 18 CFM per slot at 0.24 in-H₂O @ 5 kft. The VTX951 provides push/pull cooling to the RTM slots.

Backplane

The backplane provides two 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.



Figure 1: Front View



Figure 2: Rear View

Backplane Configuration

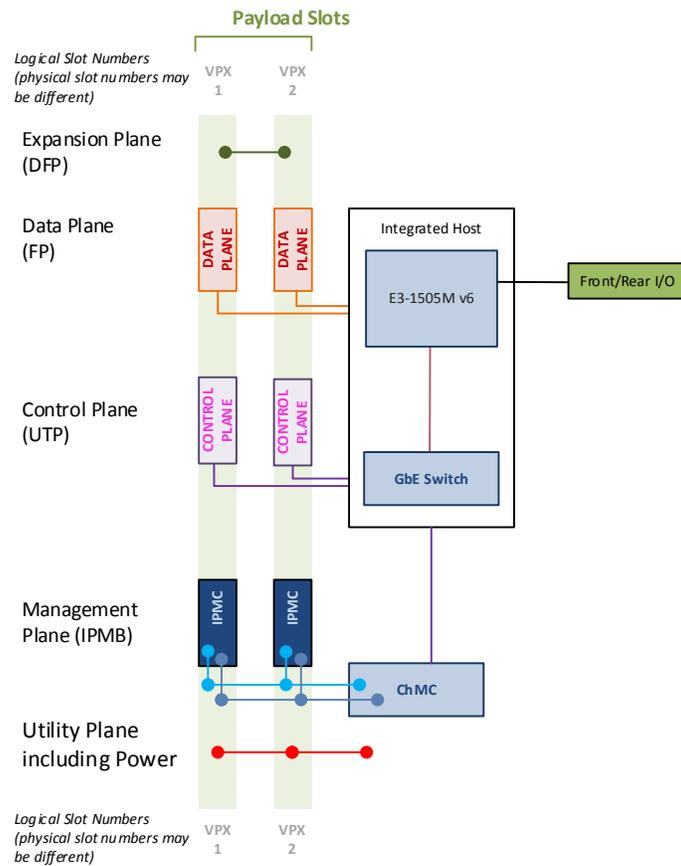


Figure 3: Backplane Connections

The initial offering on VTX951 is based on backplane profile BKP3-CEN02_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



Figure 4: Chassis Layout - Front



Figure 5: Chassis Layout - Rear

Specifications

Architecture		
Physical	Dimensions	Height: 1U Width: 19" Depth: 12" Weight: TBD lbs.
Type	VPX Shelf	2 Payload Slots up to 1.0" pitch with an Intel CPU
Standards		
VPX	Type	VITA-46.0 Baseline Specification
Configuration		
Power		500W Universal AC input
Environmental		See Ordering Options
Cooling		Right to Left
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 VPX products including chassis platforms, shelf managers, VPX modules, Switch and Payload Boards, 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

VTX951 – 000-000-0HJ

		H = Environmental
		See Environmental Specification table option H description
		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 @ 6.4GSPS 12-bits

Contact

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