

# VRT765A

Rear I/O for VPX765, VPX RTM



VRT765A

## Key Features

- 3U RTM per VITA 46
- NVME M.2 Storage
- DP (Display Port)
- GbE
- Dual RS-232
- USB 3.2

## Benefits

- 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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# VRT765A

The VRT765A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VadaTech VPX765 3U VPX Intel Tiger Lake CPU.

VRT765A routes DP, USB3.2, GbE, PCIe x4 to M.2 NVME and Dual RS-232 for easy access of the I/O.



Figure 1: VRT765A

# Block Diagram

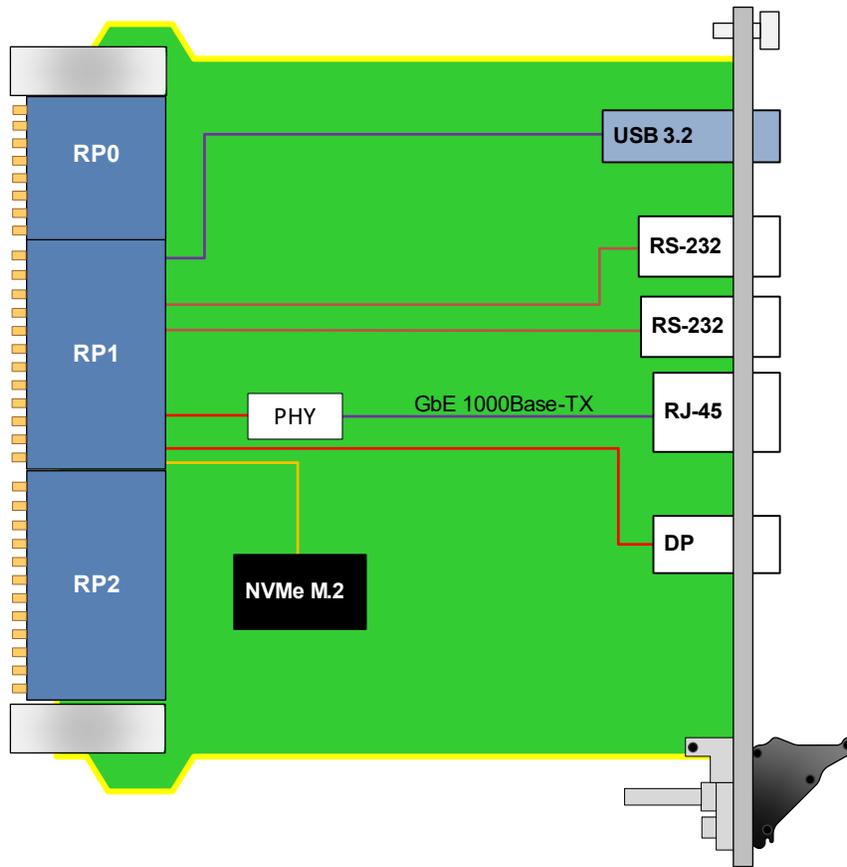


Figure 2: VRT765A Functional Block Diagram

# Specifications

Architecture		
<b>Physical</b>	<b>Dimensions</b>	3U RTM, 1" pitch
Configuration		
<b>Power</b>	<b>VRT765A</b>	3W
<b>Rear Panel</b>	<b>Connectors</b>	USB 3.2 Type C, Micro-USB for RS-232 RJ-45 for 1000BASE-TX M.2 (internal for storage)
<b>VPX Interfaces</b>	<b>Slot Profiles</b>	See <a href="#">Ordering Options</a>
	<b>Backplane</b>	RP0: Power RP1: GbE, DP, Dual RS-232, PCIe x4 Gen3 and USB3.2
Other		
<b>MTBF</b>	MIL Hand book 217-F@ TBD hrs	
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable	
<b>Standards</b>	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
<b>Warranty</b>	Two (2) years, 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

## VRT765A – A00-000-GHJ

### A = NVMe size

0 = None  
 1 = 1 TB  
 2 = 2 TB  
 3 = 4 TB  
 4 = Reserved

### G = Applicable Slot Profiles

0 = 5 HP

### H = Environmental

See [Environmental Specification](#)

### J = Conformal Coating

0 = No coating  
 1 = Humiseal 1A33 Polyurethane  
 2 = Humiseal 1B31 Acrylic

## Environmental Specification

Option H	Air Cooled			Conduction Cooled		
	H = 0	H = 1	H = 2	H = 3	H = 4	
<b>Operating Temperature</b>	AC1* (0°C to +55°C)	AC3* (-40°C to +70°C)	CC1* (0°C to +55°C)	CC3* (-40°C to +70°C)	CC4* (-40°C to +85°C)	
<b>Storage Temperature</b>	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C3* (-50°C to +100°C)	
<b>Operating Vibration</b>	V2* (0.04 g2/Hz max)	V2* (0.04 g2/Hz max)	V3* (0.1 g2/Hz max)	V3* (0.1 g2/Hz max)	V3 (0.1 g2/Hz max)	
<b>Storage Vibration</b>	OS1* (20g)	OS1* (20g)	OS2* (40g)	OS2* (40g)	OS2* (40g)	
<b>Humidity</b>	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing	

Notes: \*Nomenclature per ANSI/VITA 47. Contact local sales office for conduction cooled (H = 2, 3, 4)

## Related Products

VPX765



- Xilinx UltraScale+ XCZU15EG FPGA
- 8 GB of 64-bit wide DDR4 Memory (single bank) with ECC
- MPSoC with block RAM and UltraRAM

VPX599



- Xilinx Kintex UltraScale™ XCKU115 FPGA
- Dual ADC 12-bit @ 6.4 GSPS
- Dual DAC 16-bit @ 12 GSPS (AD9162 or AD9164)

VTX870



- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 3U VPX payload slots

# Contact

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