

# VRT518A

Rear I/O for VPX518, VPX RTM



VRT518A

## Key Features

- 3U RTM per VITA 46
- Dual GbE, Clock input and I/O

## 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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# VRT518A

The VRT518A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VPX518.

Dual GbE (UTP) are routed from RP1 to back panel RJ-45. The 1PPS input signal is routed from the backplane to the RTM.

The high speed I/O connector supports general purpose and serial interfaces routed from RP2 LVDS. This section of the board can be customized for specific customer requirements, contact VadaTech sales for details.



Figure 1: VRT518A

# Block Diagram

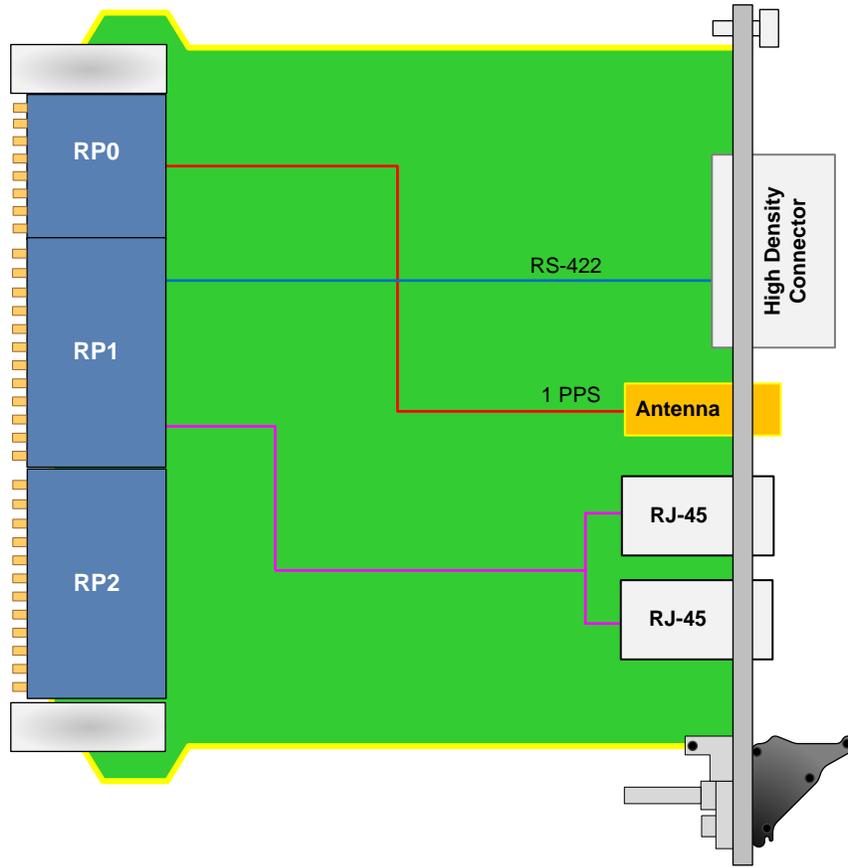


Figure 2: VRT518A Functional Block Diagram

# Back Panel

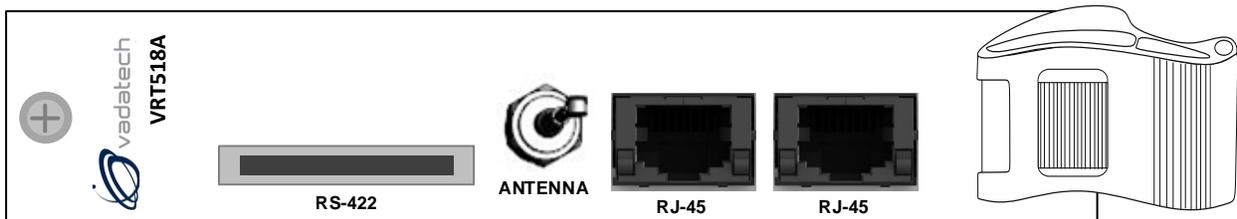


Figure 3: VRT518A Back Panel

# Specifications

Architecture		
Physical	Dimensions	3U RTM, 1" pitch
Configuration		
Power	VRT518A	3W
Rear Panel	Connectors	1 PPS, Co-ax Dual GbE, RJ-45 GPIO/Serial, Oculink
VPX Interfaces	Slot Profiles	See <a href="#">Ordering Options</a>
	Backplane	RP0: 1 PPS RP1: Dual GbE RP1: I/O
	Power Supplies	RP0: VS1 = 12V
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, 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

## VRT518A – 000-000-GHJ

		<b>G = Applicable Slot Profiles</b>
		0 = 5 HP
		<b>H = Environmental</b>
		See <a href="#">Environmental Specification</a>
		<b>J = Conformal Coating</b>
		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

VPX518



- 3U FPGA carrier for FPGA Mezzanine Card (FMC) per VITA 46 and VITA 57
- Xilinx Zynq-7000 FPGA in FFG-900 package (XC7Z100 or XC7Z045)
- Protocols such as PCIe, SRIO, 10GbE/40Gbe, etc. are FPGA programmable

VPX754



- 3U VPX module Intel 5th Generation Xeon D-1577, D-1548 or D-1520 (Broadwell) System-on-Chip (SoC)
- PCIe Gen3 dual x4 or single x8
- Front-panel video out via micro HDMI

VTX870



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

# Contact

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- Open systems expertise

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## We deliver complexity

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- System management
- Configurable solutions

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- Accelerated deployment
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