VRT991

Rear I/O for 3U VPX Modules

VRT991

Key Features

- 3U RTM per VITA 46
- Routs front module P1/P2 differential pairs 8-15 (P1) and 0-7 (P2) to Very High-Density Connector Interface (VHDCI)

Benefits

- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company
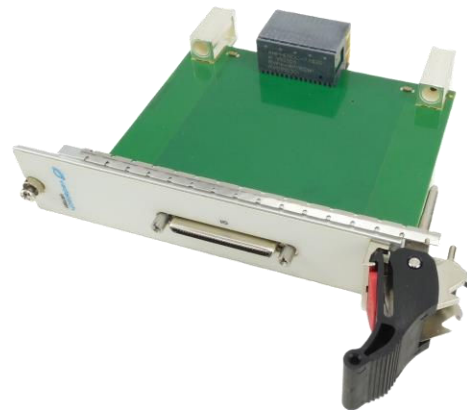

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The VRT991 is a 3U VPX Rear Transition Module that routes the front module P1 ports 8-15 and P2 ports 0-7 to the VHDCI Connector style. The module is passive and does not have any active components.

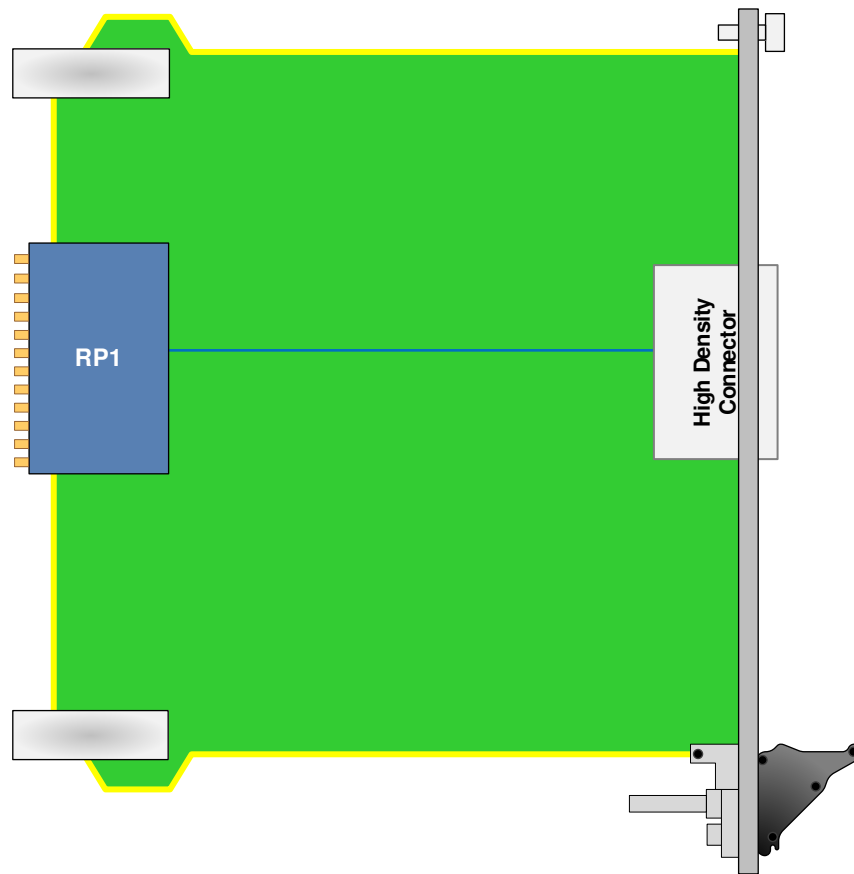*Figure 1: VRT991*

Figure 2: VRT991 Top View

Block Diagram

Figure 3: VRT991 Functional Block Diagram

VRT991 – Rear I/O for VPX 3U

Specifications

Architecture		
Physical	**Dimensions**	3U RTM, 1" pitch
Configuration		
Power		0 W
Rear Panel	**Connectors**	VHDCI
VPX Interfaces	**Slot Profiles**	See ordering options
	Backplane	
		RP1: Port 8-15 of the Front Board P1 and Ports 0-7 of the Front Board P2
	Power Supplies	
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

VRT991 – 00C-000-GHJ

	G = Applicable Slot Profiles
	0 = 5 HP

	H = Environmental
	See Environmental Specification Table below

C = Panel Type	**J = Conformal Coating**
0 = VITA 48.1 1 = IEEE 1101.10	0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Environmental Specification

	Air Cooled		Conduction Cooled		
Option H	**H = 0**	**H = 1**	**H = 2**	**H = 3**	**H = 4**
Operating Temperature	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)
Storage Temperature	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)
Operating Vibration	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)
Storage Vibration	OS1* (20g)	OS1* (20g)	OS2* (40g)	OS2* (40g)	OS2* (40g)
Humidity	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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