VRT580A

Rear I/O for VPX580, VPX RTM



Key Features

- 6U RTM per VITA 46 for I/O Expansion
- QSFP+
- Quad SFP+ ports
- Dual GbE
- 16 LVDS and 21 single ended

Benefits

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





VRT580A

The VRT580A is a 6U VPX Rear Transition Module providing I/O expansion for use with the VadaTech VPX580 6U VPX FPGA FMC Carrier.

VRT580A routes 16 LVDS input/output to a High-Density Connector (HDC), each I/O can be configured as input or output. In addition, 21 singled-ended (SE) I/O are routed to the HDC.

The Module provide dual GbE via RJ-45, a single QSFP+ port and quad SFP+.



Figure 1: VRT580A

Front Panel



Figure 2: VRT580A Front Panel View

Block Diagram

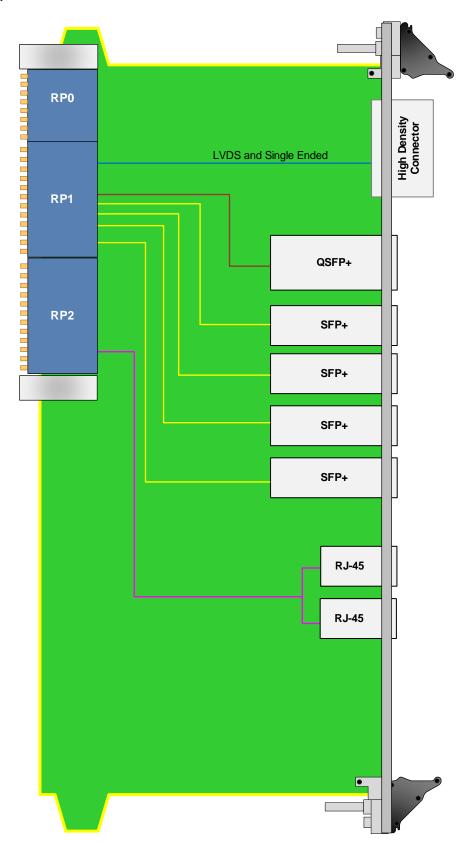


Figure 3: VRT580A Functional Block Diagram

Specifications

Architecture					
Physical	Dimensions	6U RTM, 1" pitch			
Configuration					
Power	VRT580A	6W			
Rear Panel	Connectors	Single QSFP+ and Quad SFP+ ports			
		RJ-45 for 1000BASE-TX			
		LVDS and Singled Ended via HDC			
VPX Interfaces	Slot Profiles	See Ordering Options			
	Backplane	RP0: Power			
		RP1: QSFP+ and SFP+ ports			
		RP1: LVDS and single ended I/O			
		RP2: I/O			
		RP2: GbE			
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 VadaTech Terms and Conditions				

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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VRT580A - AB0-000-GHJ

A = QSFP+ Transceiver	G = Applicable Slot Profiles
0 = None 1 = 40G-SR	0 = 5 HP

2 = 40G-LR 3 = 40G WDM (SR) 4 = Reserved

B = SFP+ Transceivers *

0 = None
1 = 10Base-SR

H = Environmental
See Environmental Specification

2 = 10Base-LR 3 = 10GBase Copper

J = Conformal Coating

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)

^{*}Quantity four is shipped

Related Products

VPX580



- 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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