VRT706A

Rear I/O for VPX706, VPX RTM



Key Features

- 6U RTM per VITA 46
- Quad SFP+
- RS-232 and USB 3.0 to VPX706 Layerscape
- I/O from P3/P5 to VHDCI Connector
- Dual RS-485/RS-422
- Option for triple M.2 NVMe SSD

Benefits

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





VRT706A

The VRT706A is a 6U VPX Rear Transition Module providing I/O expansion for use with the VPX706.

The VRT706A provides an easy access to the I/O ports routed to the P1/P2/P3 and P5 connectors of the VPX706. These includes Quad SFP+, USB, RS-232, NVMe M.2 style storage, as well as I/O expansion to P3/P5.



Figure 1: VRT706A



Figure 2: VRT706A Front View

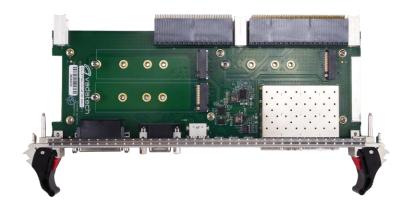


Figure 3: VRT706A Top View

Block Diagram

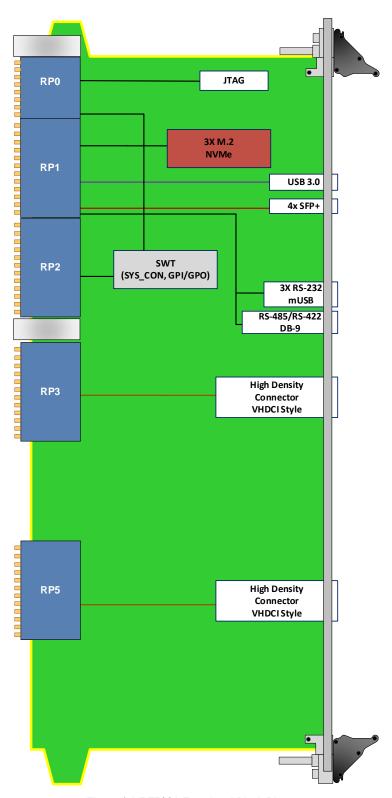


Figure 4: VRT706A Functional Block Diagram

Specifications

Architecture					
Physical	Dimensions	6U RTM, 1" pitch			
Configuration					
Power		4W (storage devices add more power)			
Rear Panel	Connectors	Quad SFP+			
		USB, VHDCI, DB-9			
		XMC I/O via miniSCSI (VHDCI style)			
VPX Interfaces	Slot Profiles	See Ordering Options			
	Backplane	RP0: Power			
		RP1: Quad SFP+, RS-232, USB, RS-485/RS-422			
		RP2: I/O			
		RP3: I/O from PMC connector J4 (user I/O)			
		RP5: I/O from PMC connector J4 (user 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 ISO9001:2015 and AS9100D 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

VRT706A - ABC-D00-GHJ

A = SFP+ Transceiver *	D = M.2 socket three NVMe SSD	G = Applicable Slot Profiles	
0 = None 1 = SR 2 = LR	0 = None 1 = 1TB 2 = 2TB 3 = 4TB	0 = 5 HP, VITA 48.1	
B = M.2 socket one NVMe SSD		H = Environmental	
0 = None 1 = 1TB 2 = 2TB 3 = 4TB		See Environmental Specification	
C = M.2 socket two NVMe SSD		J = Conformal Coating	
0 = None 1 = 1TB 2 = 2TB 4 = 4TB		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic	

^{*}Four transceivers loaded

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

VPX706



VPX754



VTX870



- Processor VPX with Layerscape LX2160A (16-core)
- PCIe/40G/10G/1G
- Protocols such as PCIe, SRIO, 10GbE/40Gbe, etc. are FPGA programmable
- 6U VPX module Intel 5th Generation Xeon D-1577, D-1548 or D-1520 (Broadwell) System-on-Chip (SoC)
- PCle Gen3 dual x4 or single x8
- XMC module with PCle Gen3 x4
- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 6U VPX payload slots

Contact

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014 Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7F-3, No16, Ln. 35, Jihu Rd.,, Neihu District, Taipei 114, Taiwan Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

Choose VadaTech

We are technology leaders

- · First-to-market silicon
- · Constant innovation
- · Open systems expertise

We commit to our customers

- · Partnerships power innovation
- · Collaborative approach
- Mutual success

We deliver complexity

- · Complete signal chain
- · System management
- · Configurable solutions

We manufacture in-house

- · Agile production
- · Accelerated deployment
- AS9100 accredited





Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners.

AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved.

Specification subject to change without notice.