VRT706A

Rear I/O for VPX706, VPX RTM

VRT706A

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
- 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

OpenVPX™

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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

Block Diagram

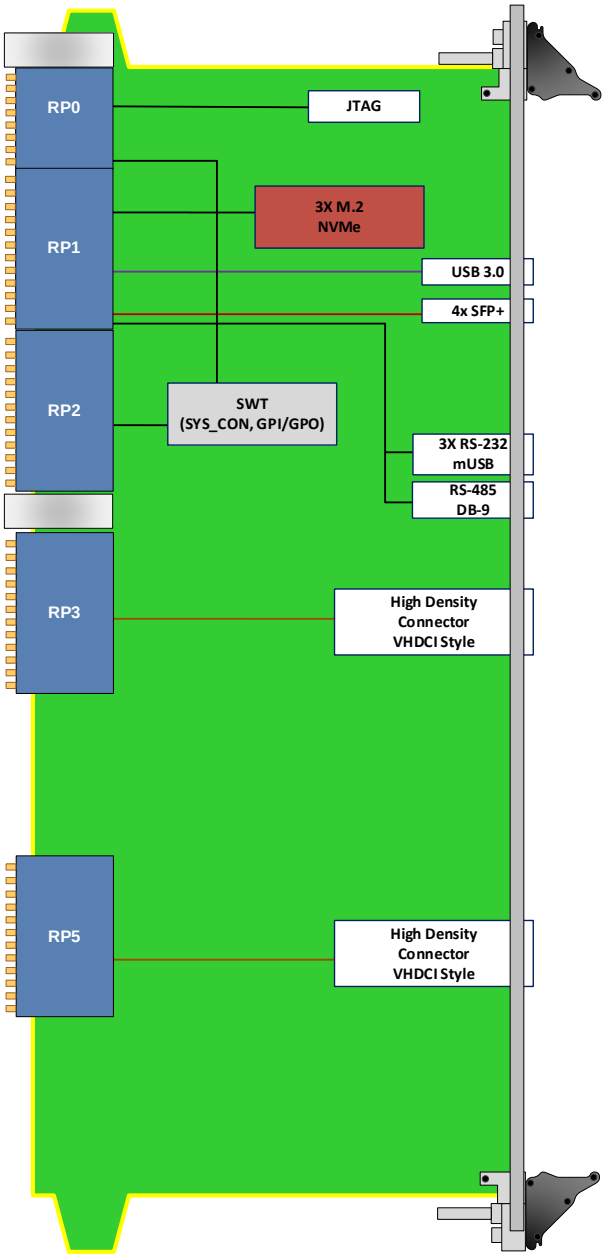

Figure 2: VRT706A Functional Block Diagram

Front Panel View

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: Dual SFP+, RS-232, USB, RS-485
		RP2: 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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VRT706A – ABC-D00-GHJ

A = SFP+ Transceiver *	C = M.2 socket two 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

- Processor VPX with Layerscape LX2160A (16-core)
- PCIe/40G/10G/1G
- Protocols such as PCIe, SRIO, 10GbE/40Gbe, etc. are FPGA programmable

VPX754

- 6U 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
- XMC module with PCIe Gen3 x4

VTX870

- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 6U VPX payload slots

Contact

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DOC NO. 4FM737-12 REV 01 | VERSION 1.1 – JUL/23