VRT703A

Rear I/O for VPX703, VPX RTM

VRT703A

Key Features

- 3U RTM per VITA 46
- Dual x4 PCIe
- Dual USB
- RS-232 from management and payload
- Dual GbE
- mSATA drive
- Dual 1553 I/O
- JTAG

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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VRT703A

The VRT703A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VPX703.

The VRT703A provides an easy access to the I/O ports routed to the P1 and P2 connectors of the VPX703. These includes dual PCIe x4, dual USB, RS-232 for both management and payload, dual 1553 ports, JTAG for CPU, dual GbE as well as mSATA socket for storage.

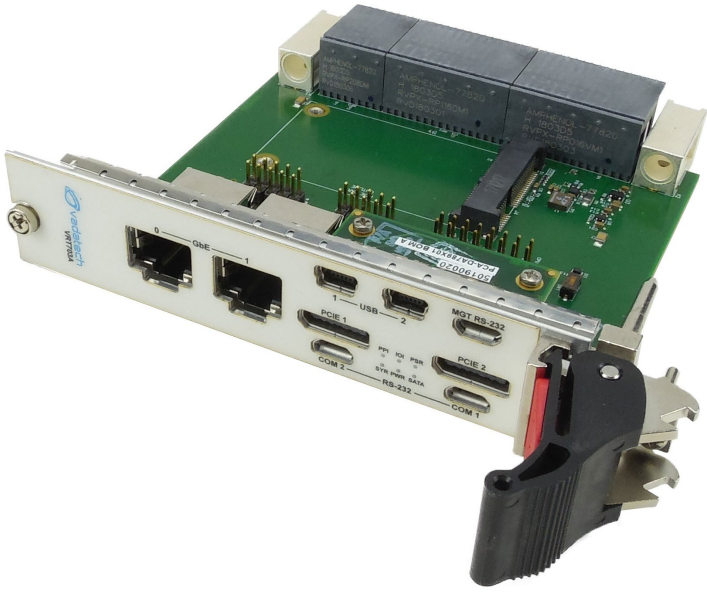

Figure 1: VRT703A

Block Diagram

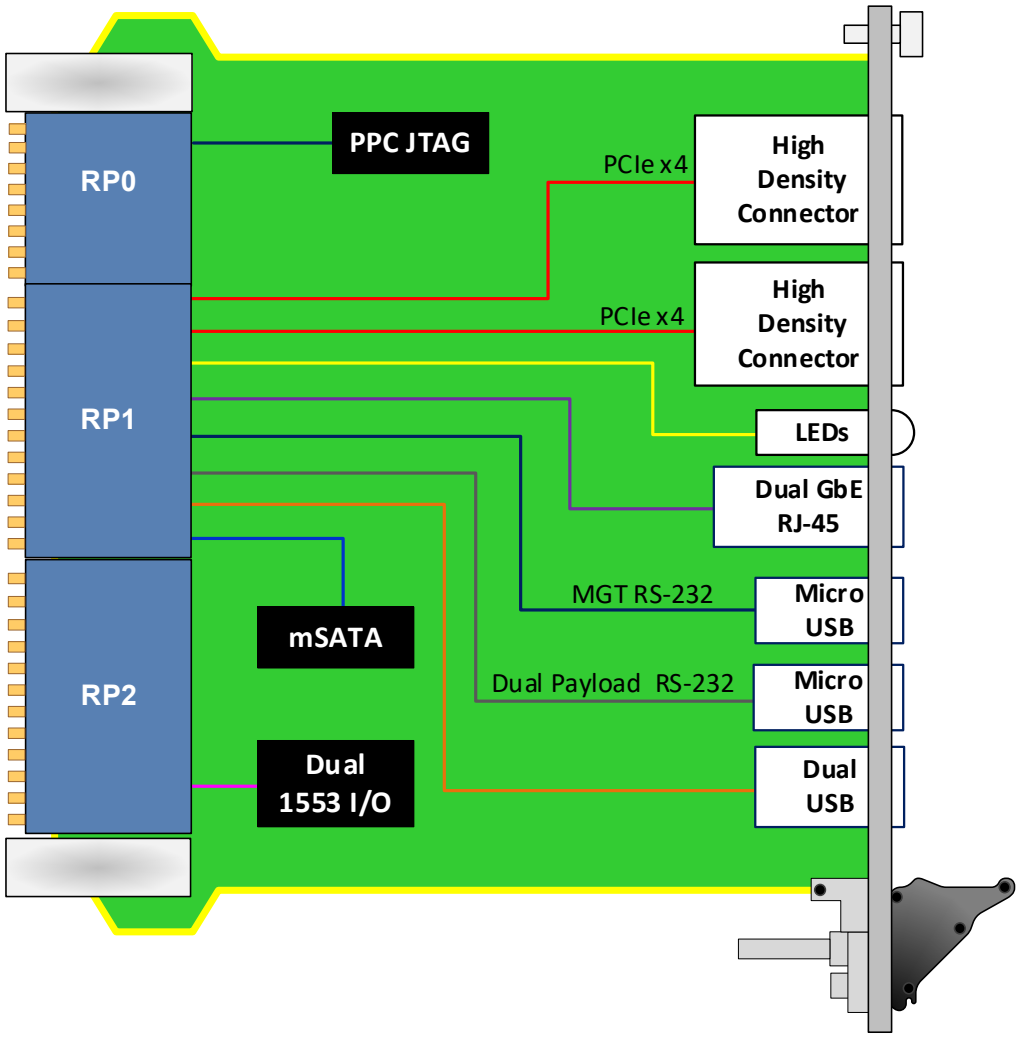

Figure 2: VRT703A Functional Block Diagram

Back Panel

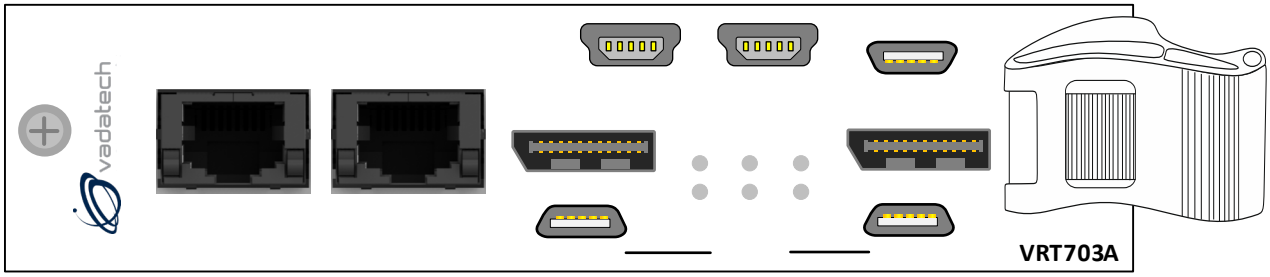

Figure 3: VRT703A Back Panel

Specifications

Architecture		
Physical	**Dimensions**	3U RTM, 1” pitch
Configuration		
Power		1W
Rear Panel	**Connectors**	RS-232 via Micro-USB, Dual USB via min-USB, mSATA socket
		Dual GbE, RJ-45
		PCIe x4 via Oculink
VPX Interfaces	**Slot Profiles**	See Ordering Options
	Backplane	RP0: Power
		RP1: Dual GbE, RS-232, USB, 1553, SATA
		RP2: I/O
	Power Supplies	RP0: VS2/VS3 +5V/+3.3V
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

VRT703A – A00-000-GHJ

A = mSATA Capacity		G = Applicable Slot Profiles
0 = No mSATA 1 = 1 TB 2 = 2 TB 3 = Reserved		0 = 5 HP
		H = Environmental
		See Environmental Specification
		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)

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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