# VRT703C

# Rear I/O for VPX703, VPX RTM



### Key Features

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

### **Benefits**

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

**openVP**X



# VRT703C

The VRT703C is a 3U VPX Rear Transition Module providing I/O expansion for use with the VPX703.

The VRT703C provides an easy access to the I/O ports routed to the P1 and P2 connectors of the VPX703. These includes dual USB, RS-232 for both management and payload, dual 1553 ports, JTAG for CPU, dual GbE as well as mSATA socket for storage. The module has an x4 OCuLink to expand to an external device via PCIe x4.



Figure 1: VRT703C

# Block Diagram

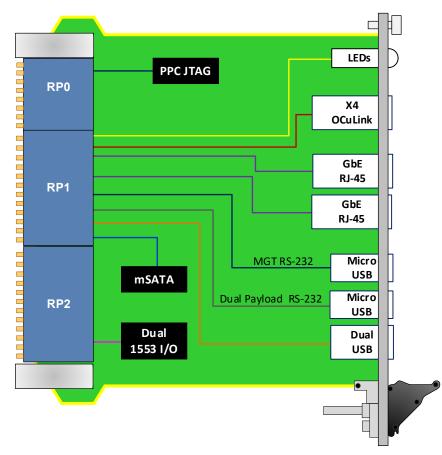


Figure 2: VRT703C Functional Block Diagram

# Specifications

Architecture						
Physical	Dimensions	3U RTM, 1" pitch				
Configuration						
Power		3W				
Rear Panel	Connectors	RS-232 via Micro-USB, Dual USB via min-USB, mSATA socket, x4 OCuLink				
		Dual GbE, RJ-45				
		1553 I/O is on 0.1" within the module				
<b>VPX Interfaces</b>	Slot Profiles	See Ordering Options				
	Backplane	RP0: Power				
		RP1: Dual GbE, RS-232, USB, 1553, SATA, PCIe				
		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	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

### VRT703C - 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 <u>Envi</u>	
		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)
<b>Operating Vibration</b>	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



VPX754



VTX870



- 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
- 3U 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
- Front-panel video out via micro HDMI
- Open VPX benchtop development platform
- Dedicated Switch/management slot
- Up to five 3U VPX payload slots

# Contact

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