

VRT769A

Rear I/O for VPX769, VPX RTM



VRT769A

Key Features

- 3U RTM per VITA 46
- 3x 1000Base-T
- HDMI Source
- Dual 10G optical (SFP+ style)
- 2x USB 2.0/3.2
- RS-232 and RS-422
- Health Management RS-232
- When the VPX769 is mated with the VadaTech XMC501
 - Dual HDMI Sink
 - GbE
 - RS-232

Benefits

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

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VRT769A

The VRT769A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VadaTech VPX769 3U VPX Intel Tiger Lake CPU.

The module routes the VPX796 I/O to standard style connectors. The module has an HDMI Source, dual 10GbE SFP+ style optical, three 1000Base-T, Dual USB 2.0/3.2, RS-232, and RS-422.

With the VPX769 mated to the XMC501 there are dual HDMI sinks that go to the XMC501 as well a GbE and RS-232.

The module has a 10HP panel.



Figure 1: VRT769A



Figure 2: VRT769A Top View

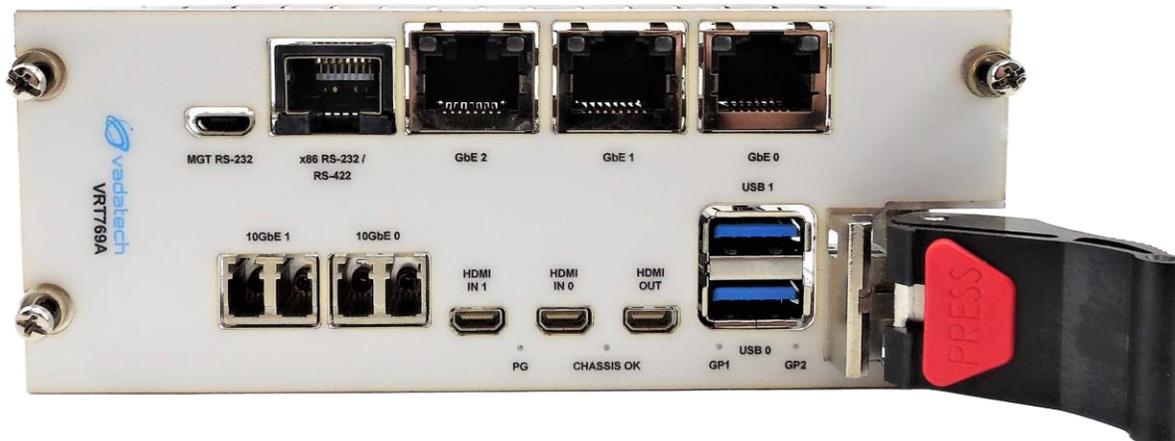


Figure 3: VRT769A Front Panel View

Block Diagram

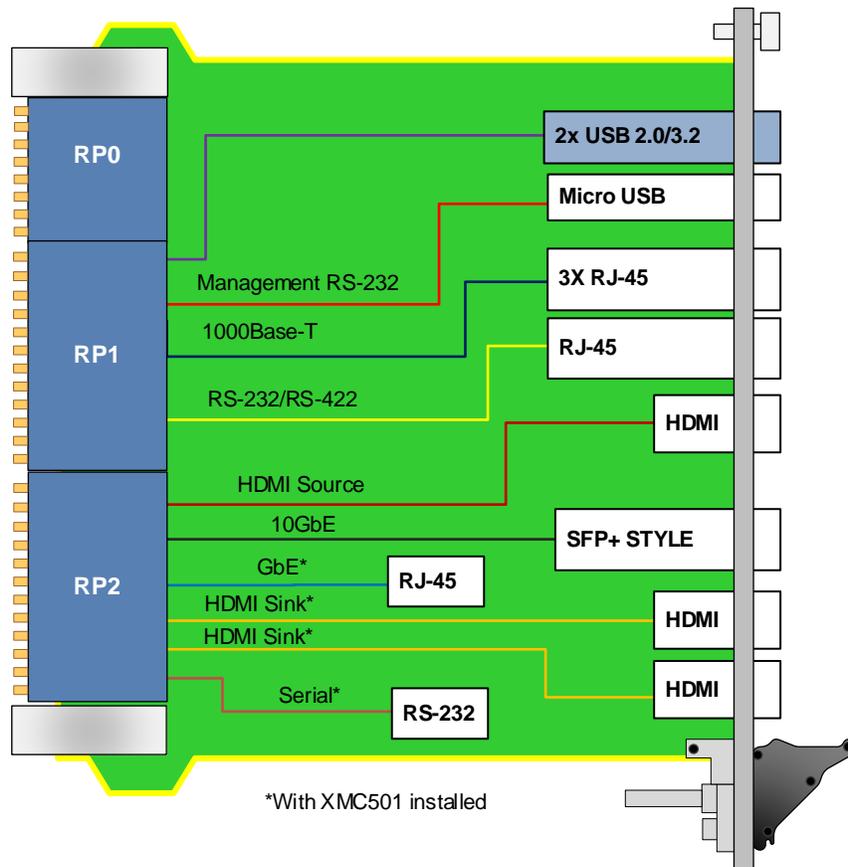


Figure 4: VRT769A Functional Block Diagram

Specifications

Architecture		
Physical	Dimensions	3U RTM, 1" pitch
Configuration		
Power	VRT769A	3W
Rear Panel	Connectors	2x USB 3.2, 3x HDMI (Micro), Micro USB as RS-232, Dual SFP+ style 3x RJ-45 for 1000BASE-TX 1x RJ-45 as RS-232 and RS-422
VPX Interfaces	Slot Profiles	See Ordering Options
	Backplane	RP0: Power RP1/RP2: I/O ports
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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VRT769A – 000-000-GHJ

G = Applicable Slot Profiles

0 = 10 HP

H = Environmental

See [Environmental Specification](#)

J = Conformal Coating

0 = No coating
 1 = Humiseal 1A33 Polyurethane
 2 = Humiseal 1B31 Acrylic

Environmental Specification

Option H	Air Cooled			Conduction Cooled		
	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

VPX765



- 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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