

VRT574A

Rear I/O & NVMe Storage for
VPX574, VPX RTM



VRT574A

Key Features

- 3U RTM per VITA 46
- GbE to rear panel
- High density connectors for I/O
- M.2 2280 NVMe Storage Slot

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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VRT574A

The VRT574A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VPX574.

GbE UTP is routed from RP1 to back panel RJ-45.

Internal storage capability via a single M.2 2280 NVMe storage slot, made accessible to the backplane via PCIe Gen3 x4.

Two OcuLink high speed I/O connectors support general purpose and serial interfaces routed from RP1, one for LVDS lanes [0:7] and one for M-LVDS lanes [8:15]. This section of the board can be customized for specific customer requirements, contact VadaTech sales for details.



Figure 1: VRT574A

Block Diagram

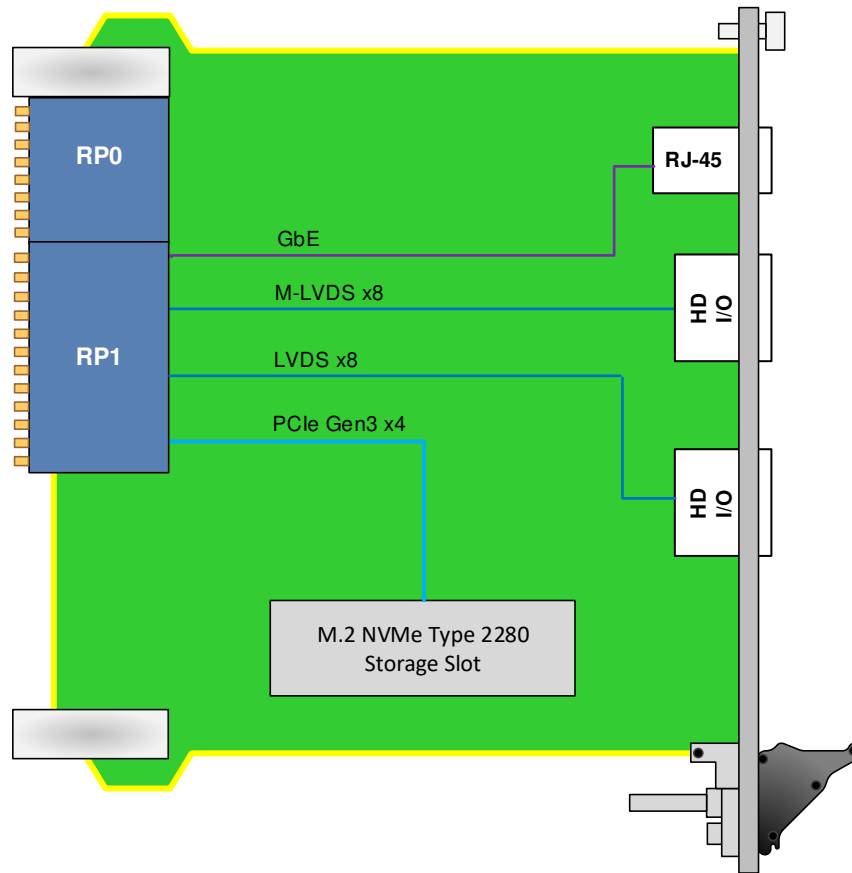


Figure 2: VRT574A Functional Block Diagram

Back Panel



Figure 3: VRT574A Back Panel

Specifications

Architecture		
Physical	Dimensions	3U RTM, 1" pitch
Configuration		
Power	VRT574A	~6W (dependent on NVMe usage)
Rear Panel	Connectors	M.2 Housing
		GbE, RJ-45
		Dual Oculink
VPX Interfaces	Slot Profiles	See ordering options
	Backplane	RP0: JTAG
		RP1: GbE
	Power Supplies	RP1: I/O
		RP1: PCIe Gen3 x4
		RP0 +5V and +3.3V
Storage Slot		M.2 NVMe Type 2280
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	

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

VRT574A – A00-000-GHJ

A = Storage Capacity		G = Applicable Slot Profiles	
0 = N/A		0 = 5 HP	
1 = 1TB			
2 = 2TB			
		H = Environmental	
		See Environmental Specification Table below	
		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

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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DOC NO. 4FM737-12 REV 01 | VERSION 1.0 – SEP/23