

# VRT761A

Rear I/O for VPX761, VPX RTM



VRT761

## Key Features

- 3U RTM per VITA 46
- Dual M.2 SATA Storage
- PCIe x4 Gen3 via MAC/PHY to Dual 10GbE Copper

## 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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# VRT761A

The VRT761A is a 3U VPX Rear Transition Module providing I/O expansion for use with the VadaTech VPX761 3U VPX Intel Coffee Lake CPU.

VRT761A has dual M.2 SATA Socket as well as Dual 10GbE Copper ports.



*Figure 1: VRT761A*

## Block Diagram

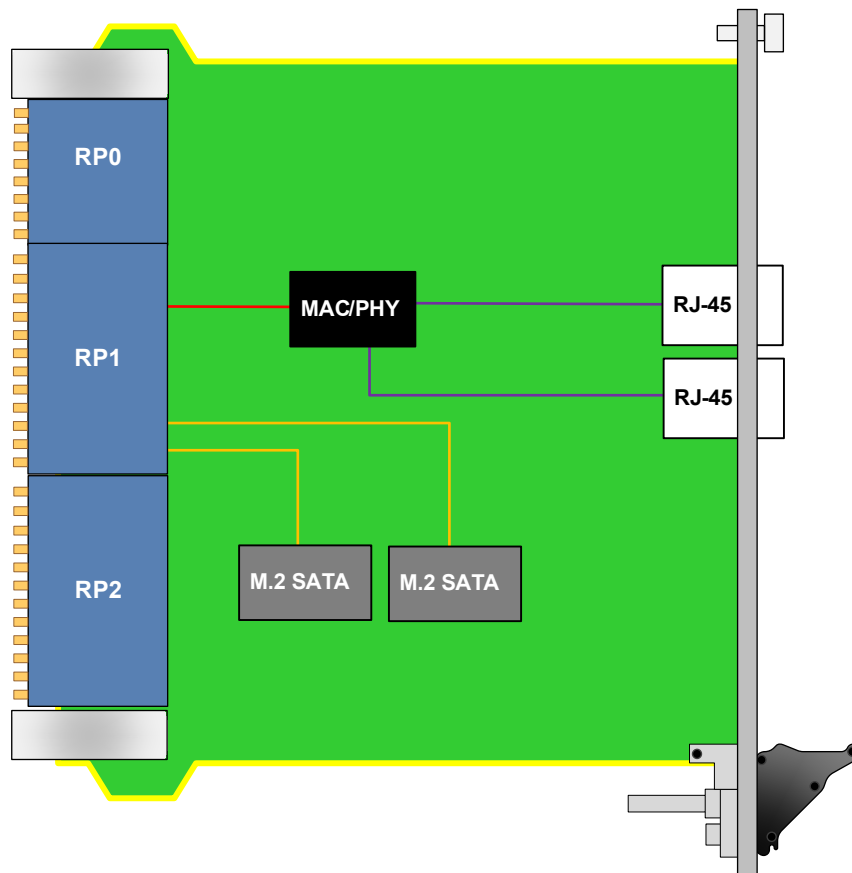


Figure 2: VRT761A Functional Block Diagram

# Specifications

| Architecture   |   |   |
|----------------|---|---|
| Physical       | Dimensions  | 3U RTM, 1" pitch                          |
| Configuration  |   |   |
| Power          | VRT761A   | ~13W                                      |
| Rear Panel     | Connectors  | Dual M.2 SATA Socket with Dual RJ-45      |
|                |   | RJ-45 for 10GbE Copper                    |
|                |   | M.2 SATA (internal for storage)           |
| VPX Interfaces | Slot Profiles   | See <a href="#">Ordering Options</a>      |
|                | Backplane   | RP0: Power<br>RP1: SATA and PCIe Gen3 x 4 |
| 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 <a href="#">VadaTech Terms and Conditions</a>          |   |

## 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

## VRT761A – A00-000-GHJ

### A = First M.2 SATA size

0 = None  
1 = 1 TB  
2 = 2 TB  
3 = 4 TB  
4 = Reserved

### G = Applicable Slot Profiles

0 = 5 HP

### B = Second M.2 SATA size

0 = None  
1 = 1 TB  
2 = 2 TB  
3 = 4 TB  
4 = Reserved

### 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

VPX761



- 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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