VPX242

3U VPX with 4 SFP+ ports

VPX242

Key Features

- 3U VPX form factor
- x4 SERDES from P1 (any lane from 1 to 16) to four SFP+ ports
- Allows for 10G down to 1G speed
- Health Management through dedicated Processor

Benefits

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

OpenVPX™

vadatech
THE POWER OF VISION

VPX242

The VPX242 is a 3U VPX module per VITA 46. The modules bring four SERDES from the P1 connector to four SFP+ ports in the front. The VPX242 allows for any protocol (Ethernet, Aurora, etc.) to run at 10G down to 1G.

The module has Clock Data Recovery on board (CDR) for better signal integrity.
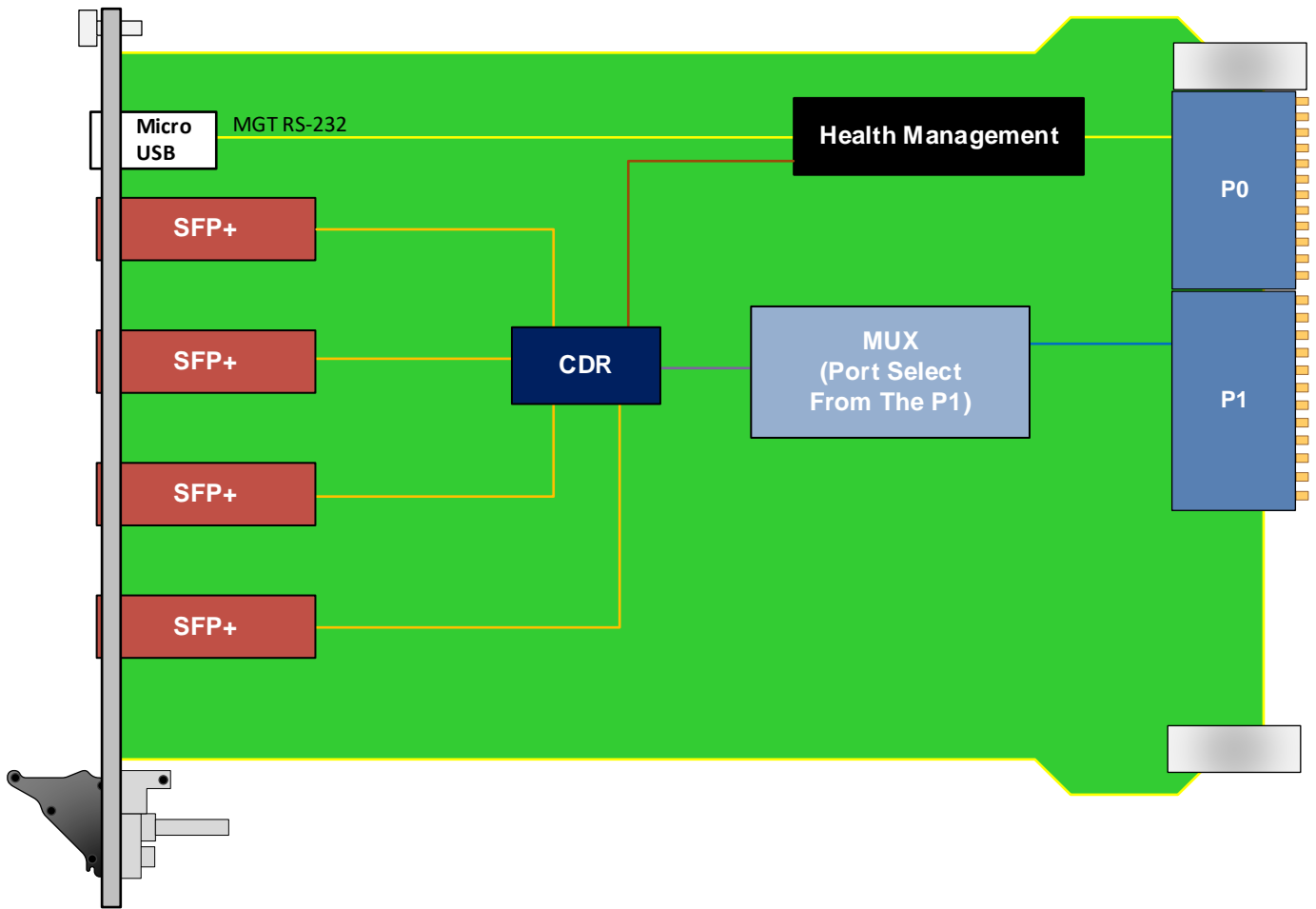
Figure 1: VPX242 Front View

Block Diagram

Figure 2: VPX242 Functional Block Diagram

Specifications

Architecture			
Physical	**Dimensions**	3U, 1" pitch	
Standards			
VPX	**Type**	VITA 46.x	
VPX	**Type**	VITA 65 OpenVPX	
Module Management	**IPMI**	IPMI v2.0	
Configuration			
Power	**VPX242**	~6W	
Front Panel		4x SFP+ ports	
	Micro USB	RS-232 for Health Management	
	LEDs	User defined by Health Management	
Onboard Interfaces		SFP+	
VPX Interfaces	**Slot Profiles**	See Ordering Options	
	Rear IO	P1 SERDES route	
	Power Supplies	From P0	
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

VPX242 – A0C-D00-GHJ

A = Optical Transceivers (comes with four)	D = P1 Ports routed to the SFP+	G = Applicable Slot Profile
0 = None 1 = 10G SR 2 = 10G LR (1KM) 3 = 10G LR (10KM) 4 = 10G ER (40KM) 5 = 10G Copper	0 = Ports 1-4 1 = Ports 5-8 2 = Ports 9-12 3 = Ports 13-16	0 = 5 HP, VITA 48.1 1 = Reserved
		H = Environmental
		See Environmental Specification
C = VPX Connector Type		**J = Conformal Coating**
0 = Standard 50u Gold Rugged 1 = KVPX Connectors		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes:

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

VPX516

- 3U FPGA carrier for FPGA Mezzanine Card (FMC) per VITA 46 and VITA 57
- Xilinx Virtex-7 690T FPGA in FFG-1761 package
- High-performance clock jitter cleaner

VPX592

- 3U FPGA carrier for FMC per VITA 46 and VITA 57
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- High-performance clock jitter cleaner

VPX599

- Xilinx Kintex UltraScale™ XCKU115 FPGA
- Dual ADC 12-bit @ 6.4 GSPS
- Dual DAC 16-bit @ 12 GSPS (AD9162 or AD9164)

Contact

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

Choose VadaTech

We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited

vadatech

THE POWER OF VISION