VPX021

3U VPX Power Module DC Input 600W



Key Features

- Power Module for Open VPX VITA 62
- 3U VPX Systems
- 600W Output Power
- 2KVdc input to output functional isolation
- Input voltage +16V to +45V (nominal +28V)
- Available in Conduction Cooled
- Meets Mil-STD-704F, MIL-STD-461G, MIL-STD-810G MIL-STD-1275E
- Health Management through dedicated Processor
- Up to four modules for parallel operation and/or redundancy

Benefits

- Most comprehensive VPX products in the market
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

OpenVPX



vadatech

VPX021

The VPX021 is a power module per VITA 62. The VPX021 is designed for 3U VPX systems and provides +12V, +5V, +3.3V, -12V_AUX, +12V_AUX and +3.3V_AUX to the backplane. Up to four VPX021 could be utilized for parallel operation and/or redundancy.

The module has dedicated health management per VITA46.11 and interfaces to the backplane using dual IPMI buses. The module has ENABLE, INHBIT, FAIL, Geographic address, and SYSRESET connections to the backplane.

The module is designed to meet the following MIL-STDs:

- MIL-STD-704F
- MIL-STD-461G
- MIL-STD-810G
- MIL-STD-1275E



Figure 1: VPX021



Figure 2: VPX021 Top View

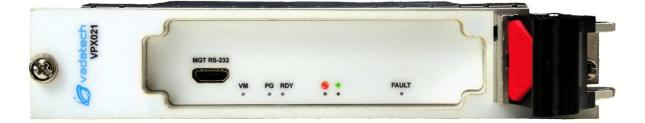


Figure 3: VPX021 Front View

Block Diagram

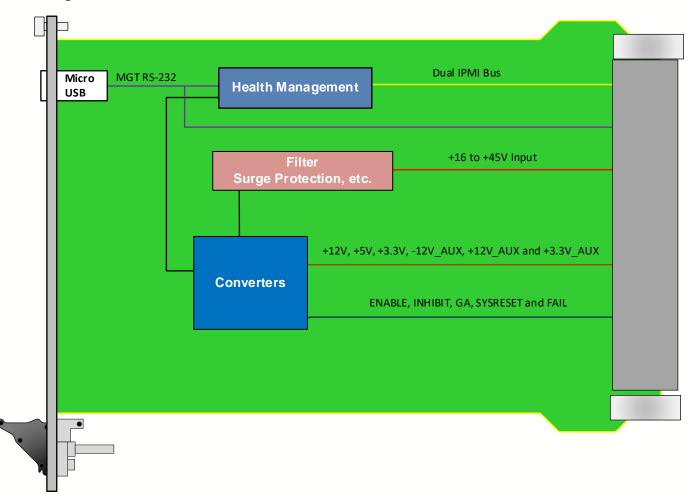


Figure 4: VPX021 Functional Block Diagram

Specifications

Architecture					
Physical	Dimensions	3U, 1" pitch			
Standards					
VPX	Туре	VITA 46.0			
VPX	Туре	VITA 65 OpenVPX			
Module Management	IPMI	IPMI v2.0			
Configuration					
Power	VPX021	Power Entry Module with +16 to +45V input 600W			
		2KVdc Isolation			
Front Panel	Micro USB	RS-232 for Health Management			
	LEDs	User defined by Health Management			
Onboard Interfaces	Dual IPMI Buses				
VPX Interfaces	Slot Profiles	See Ordering Options			
	Rear IO	Per VITA62 (Fail, Inhibit, Geographic address, etc.)			
	Backplane	Connector per VITA 62			
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 <u>VadaTech Terms and Conditions</u>				

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

VPX021 - 000-000-GHJ

	G = Applicable Slot Profile
	0 = 5 HP, VITA 48.1 1 = Reserved
	H = Environmental
	See Environmental Specification
	J = Conformal Coating
	0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic3 3 = Parylene

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 VPX592



VPX599



- 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
- 3U FPGA carrier for FMC per VITA 46 and VITA 57
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- High-performance clock jitter cleaner
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- Dual ADC 12-bit @ 6.4 GSPS
- Dual DAC 16-bit @ 12 GSPS (AD9162 or AD9164)

Contact

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