VPX027

6U VPX Universal AC or DC Input Power Module 900W

VPX027

Key Features

- Power Module for Open VPX VITA 62 in 6U VPX 10HP
- Universal AC input 85V_{RMS} to 264V_{RMS} (nominal 100V_{RMS} to 240V_{RMS}) with 3 Phase (3P) option
 - DC Input 120V to 370V
- AC Input Frequency 47 to 63Hz (typical 50/60)
 - 400Hz operational
- 900W Output Power
- +12V and +3.3V_AUX
- Available in Conduction Cooled
- Meets Mil-STD-704F, MIL-STD-461F, MIL-STD-810G
- 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





VPX027

The VPX027 is a power module per VITA 62. The VPX027 is designed for 6U VPX systems and provides +12V and +3.3V_AUX to the backplane. Up to four VPX027 could be utilized for parallel operation and/or redundancy. The total output power of 900W per module.

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-461F
- MIL-STD-810G

Figure 1: VPX027

Figure 2: VPX027 Top View

Figure 3: VPX027 Front Panel View

Block Diagram

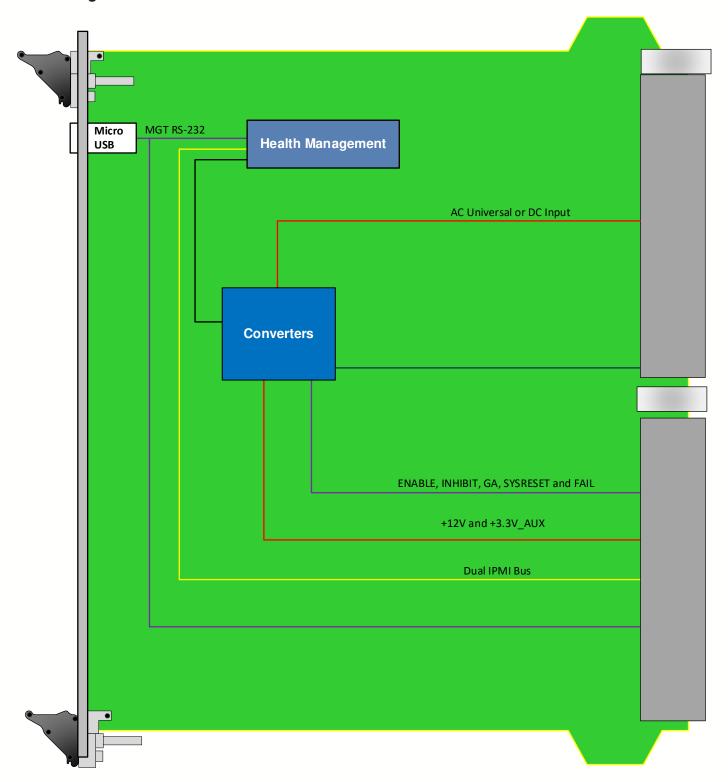


Figure 4: VPX027 Functional Block Diagram

Specifications

Architecture				
Physical	Dimensions	6U, 2" pitch (10 HP panel)		
Standards				
VPX	Туре	VITA 46.0		
VPX	Туре	VITA 65 OpenVPX		
Module Management	IPMI	IPMI v2.0		
Configuration				
Power	VPX027	Power Entry Module with universal AC or DC input 900W		
		Input to output 4000Vac; 2KVac Isolation input to Chassis; 1500Vac Output to Chassis		
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 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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VPX027*- AB0-000-GHJ

A = Number of Input Phase	G = Applicable Slot Profile	
0 = One Phase 1 = Three Phase (3P)**	0 = 10 HP, VITA 48.1 1 = Reserved	
B = VS3 (PO3)	H = Environmental	
0 = No Connect 1 = +12V	See Environmental Specification	
	J = Conformal Coating	
	0 = No coating 1 = Reserved 2 = Reserved 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:

^{*}Per VITA specification +5V, +12V_AUX and -12V_AUX is required. The VPX027 provides only +12V and +3.3V+_AUX to the backplane. Please consider VPX026 if other voltages are

^{*}Nomenclature per ANSI/VITA 47. Contact local sales office for conduction cooled (H = 2, 3, 4).

Related Products

VPX021



- Power Module for Open VPX VITA 62
- 3U VPX Systems
- 600W Output Power

VPX029



- Power Module for Open VPX VITA 62
- 3U VPX Systems
- 600W Output Power

VPX028



- Power Module for Open VPX VITA 62
- 6U VPX Systems
- 500W Output Power

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





Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners.

AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved.

Specification subject to change without notice.