VPX026

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

VPX026

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, +5V, -12V_AUX, +12V_AUX 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

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VPX026

The VPX026 is a power module per VITA 62. The VPX026 is designed for 6U VPX systems and provides +12V, +5V, -12V_AUX, +12V_AUX and +3.3V_AUX to the backplane. Up to four VPX026 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: VPX026

Figure 2: VPX026 Top View
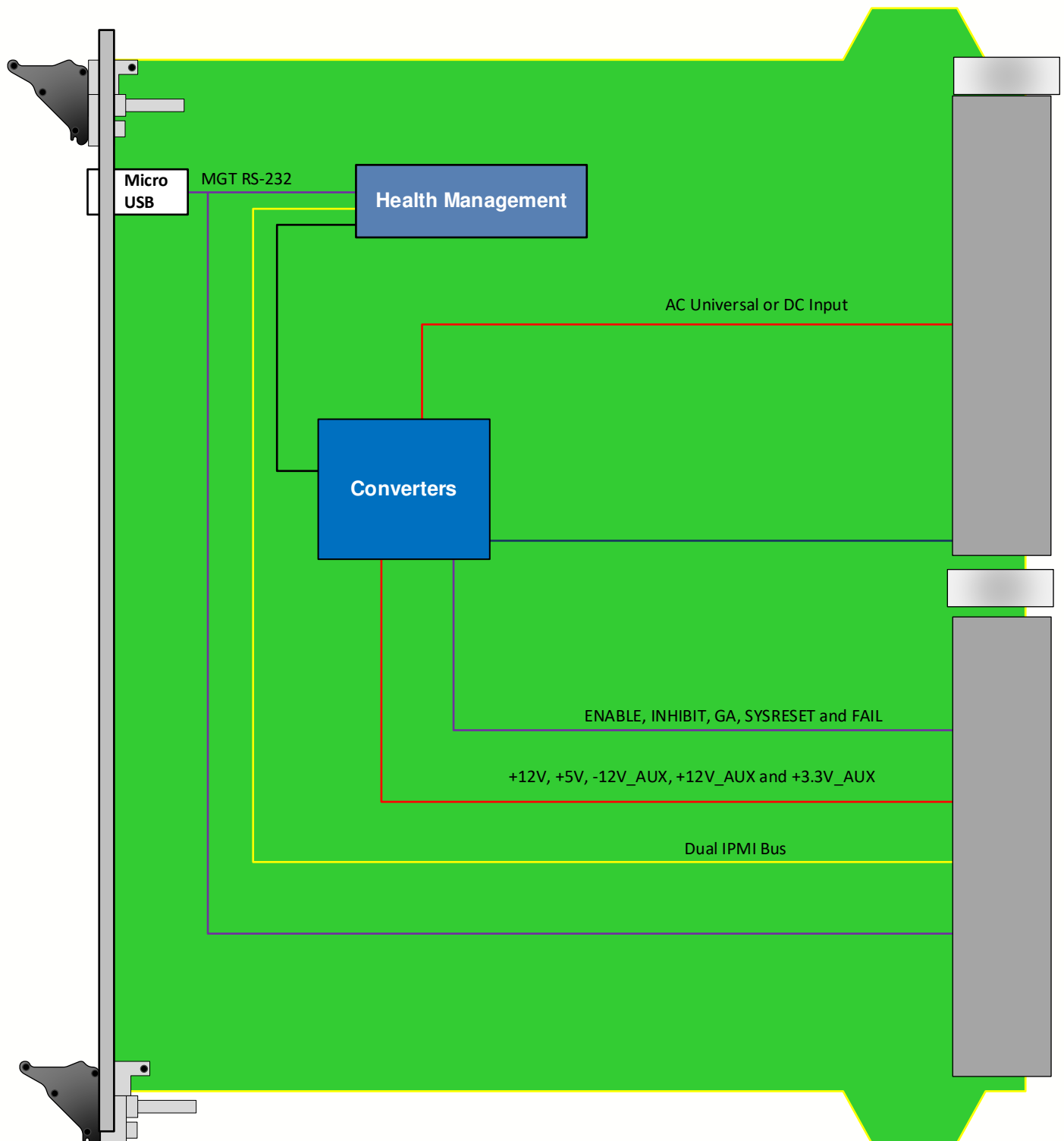
Figure 3: VPX026 Front Panel View

Block Diagram

Figure 4: VPX026 Functional Block Diagram

Within the diagram:

Micro USB

MGT RS-232

Health Management

AC Universal or DC Input

Converters

ENABLE, INHIBIT, GA, SYSRESET and FAIL

+12V, +5V, -12V_AUX, +12V_AUX and +3.3V_AUX

Dual IPMI Bus

Specifications

Architecture			
Physical	**Dimensions**	6U, 2" pitch (10 HP panel)	
Standards			
VPX	**Type**	VITA 46.0	
VPX	**Type**	VITA 65 OpenVPX	
Module Management	**IPMI**	IPMI v2.0	
Configuration			
Power	**VPX026**	Power Entry Module with universal AC or DC input 900W	
		Input to output 4000V$_{AC}$; 2KV$_{AC}$ Isolation input to Chassis; 1500V$_{AC}$ 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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VPX026–A00-000-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
		H = Environmental
		See Environmental Specification
		J = Conformal Coating
		0 = No coating 1 = Reserved 2 = Reserved 3 = Parylene

Notes: When module is ordered as 3P please make sure not to run as a single phase

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

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

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