

# VPX024

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

VPX024

### Key Features

- Power Module for Open VPX VITA 62 in 6U VPX 10HP
- Universal AC input 85V<sub>RMS</sub> to 264V<sub>RMS</sub> (nominal 100V<sub>RMS</sub> to 240V<sub>RMS</sub>) with 3 Phase (3P) option
  - DC Input 120V to 370V
- AC Input Frequency 47 to 63Hz (typical 50/60)
  - 400Hz operational
- 900W Output Power
- +48V, +5V 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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# VPX024

The VPX024 is a power module per VITA 62. The VPX024 is designed for 6U VPX systems and provides +48V, +5V and +3.3V\_AUX to the backplane. Up to four VPX024 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: VPX024

Figure 2: VPX024 Top View

Figure 3: VPX024 Front Panel View



## Block Diagram

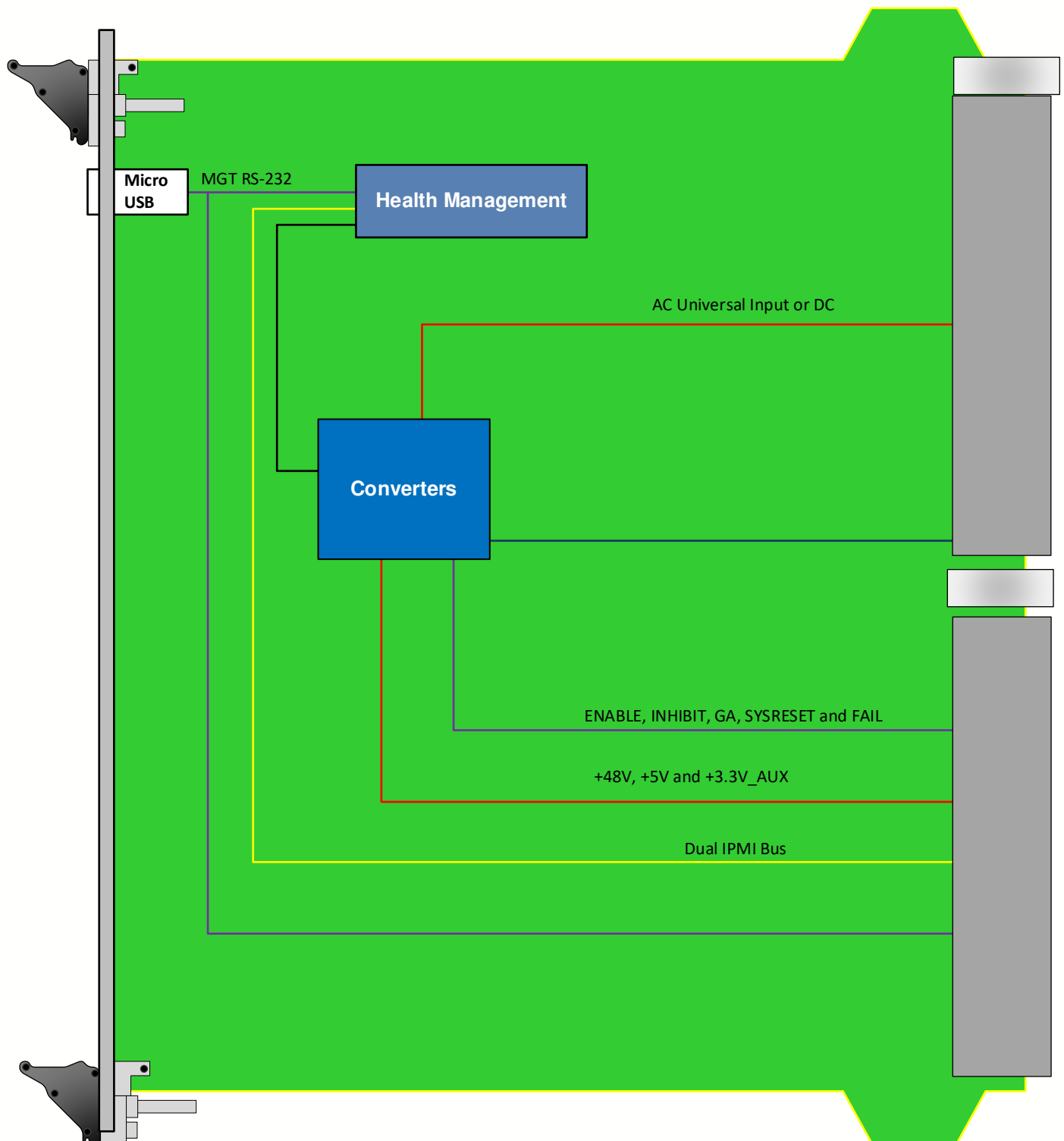


Figure 4: VPX024 Functional Block Diagram

# 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	VPX024	Power Entry Module with universal AC or DC input 900W
		Input to output 4000V <sub>AC</sub> ; 2KV <sub>AC</sub> Isolation input to Chassis; 1500V <sub>AC</sub> 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 <a href="#">Ordering Options</a>
	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 <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

## VPX024-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 <a href="#">Environmental Specification</a>
		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

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