

VPX025

6U VPX 28V DC Input Power Module 1100W

VPX025

Key Features

- Power Module for Open VPX VITA 62
- 6U VPX Systems
- 1100W 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



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OpenVPX™



VPX025

The VPX025 is a power module per VITA 62. The VPX025 is designed for 6U VPX systems and provides +12V, +5V, -12V_AUX, +12V_AUX and +3.3V_AUX to the backplane. Up to four VPX025 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: VPX025

Figure 2: VPX025 Top View

Figure 3: VPX025 Front Panel View

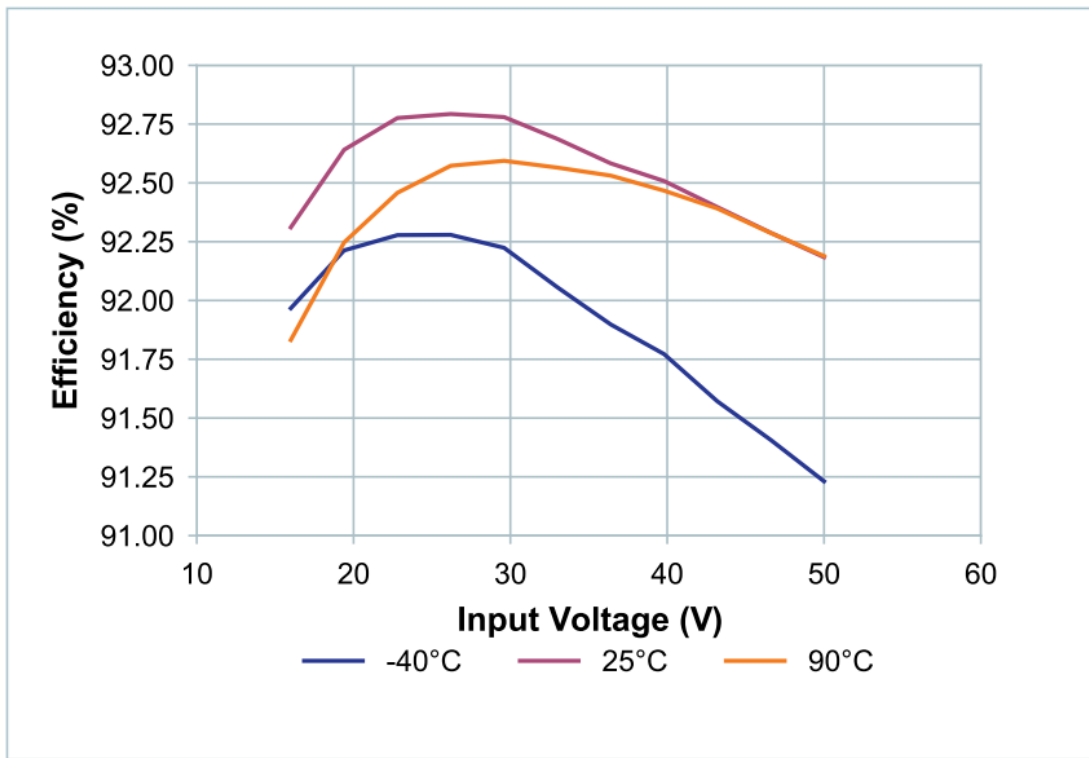


Figure 4: Main +12V output. The rest of the powers are generated from the +12V

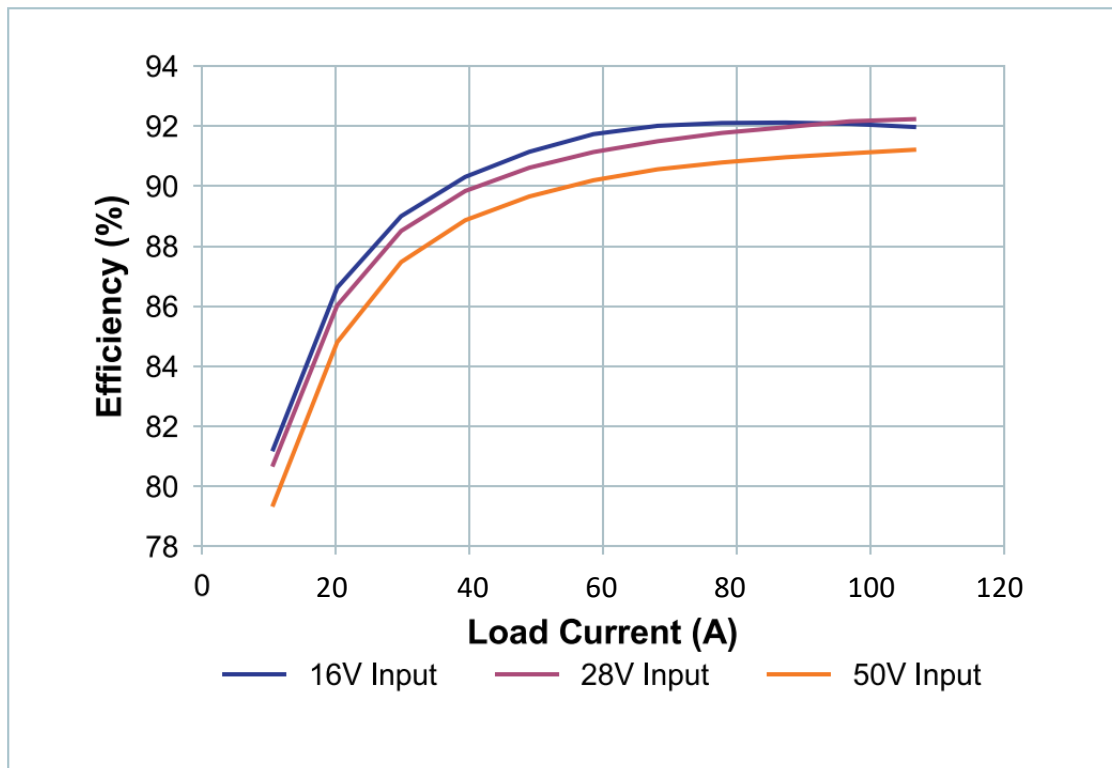


Figure 5: Main +12V output. The rest of the powers are generated from the +12V

Block Diagram

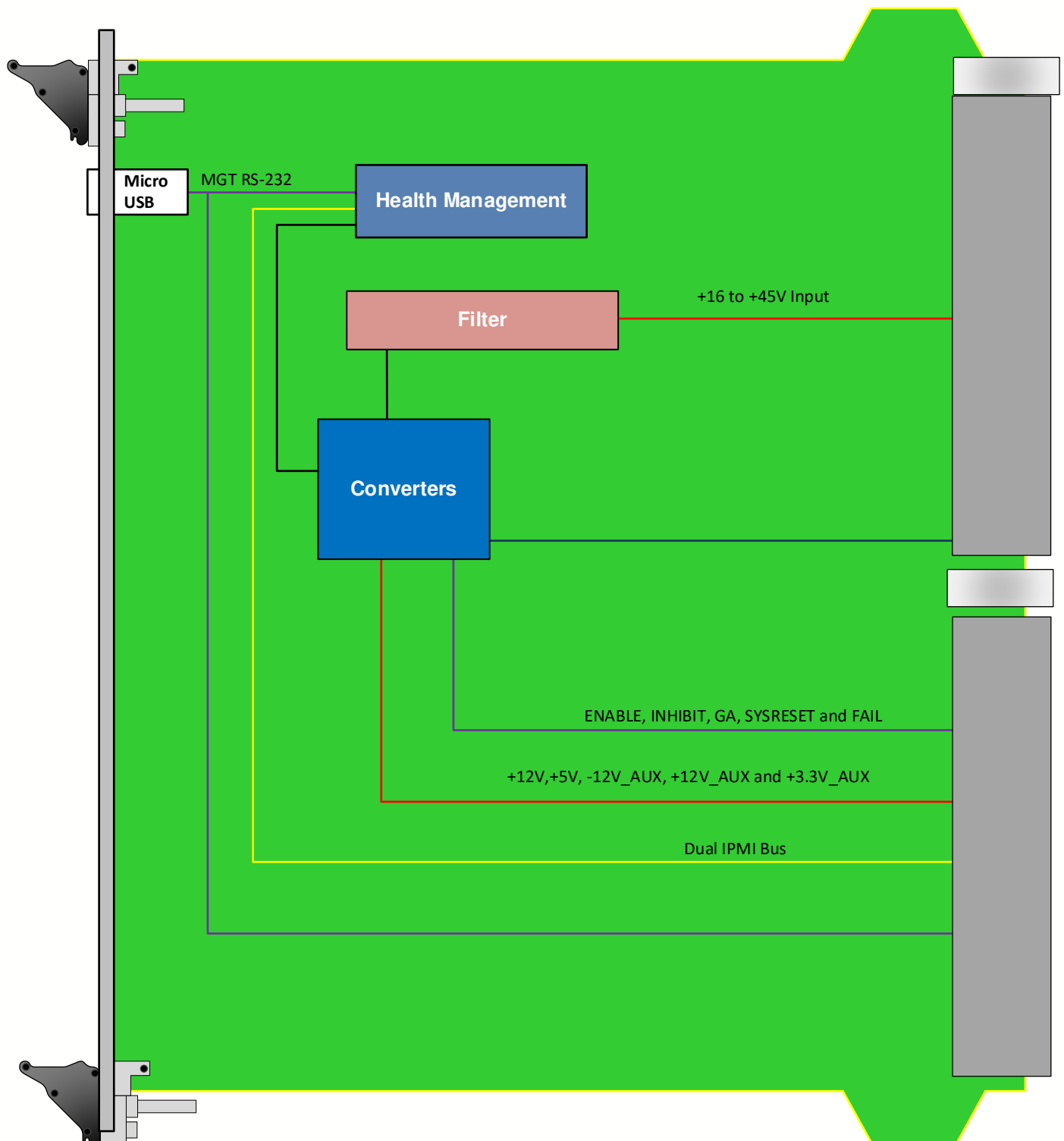


Figure 4: VPX025 Functional Block Diagram

Specifications

Architecture		
Physical	Dimensions	6U, 1" pitch (5 HP panel)
Standards		
VPX	Type	VITA 46.0
VPX	Type	VITA 65 OpenVPX
Module Management	IPMI	IPMI v2.0
Configuration		
Power	VPX025	Power Entry Module with +16V to +45V input 1100W 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 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

VPX025*– 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 = Reserved 2 = Reserved 3 = Parylene

Notes:

*Per VITA specification +5V, +12V_AUX and -12V_AUX is required. The VPX025 provides only +12V and +3.3V+_AUX to the backplane.

Environmental Specification

Option H	Air Cooled		Conduction Cooled		
	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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