

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})
 - 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

OpenVPX™



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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

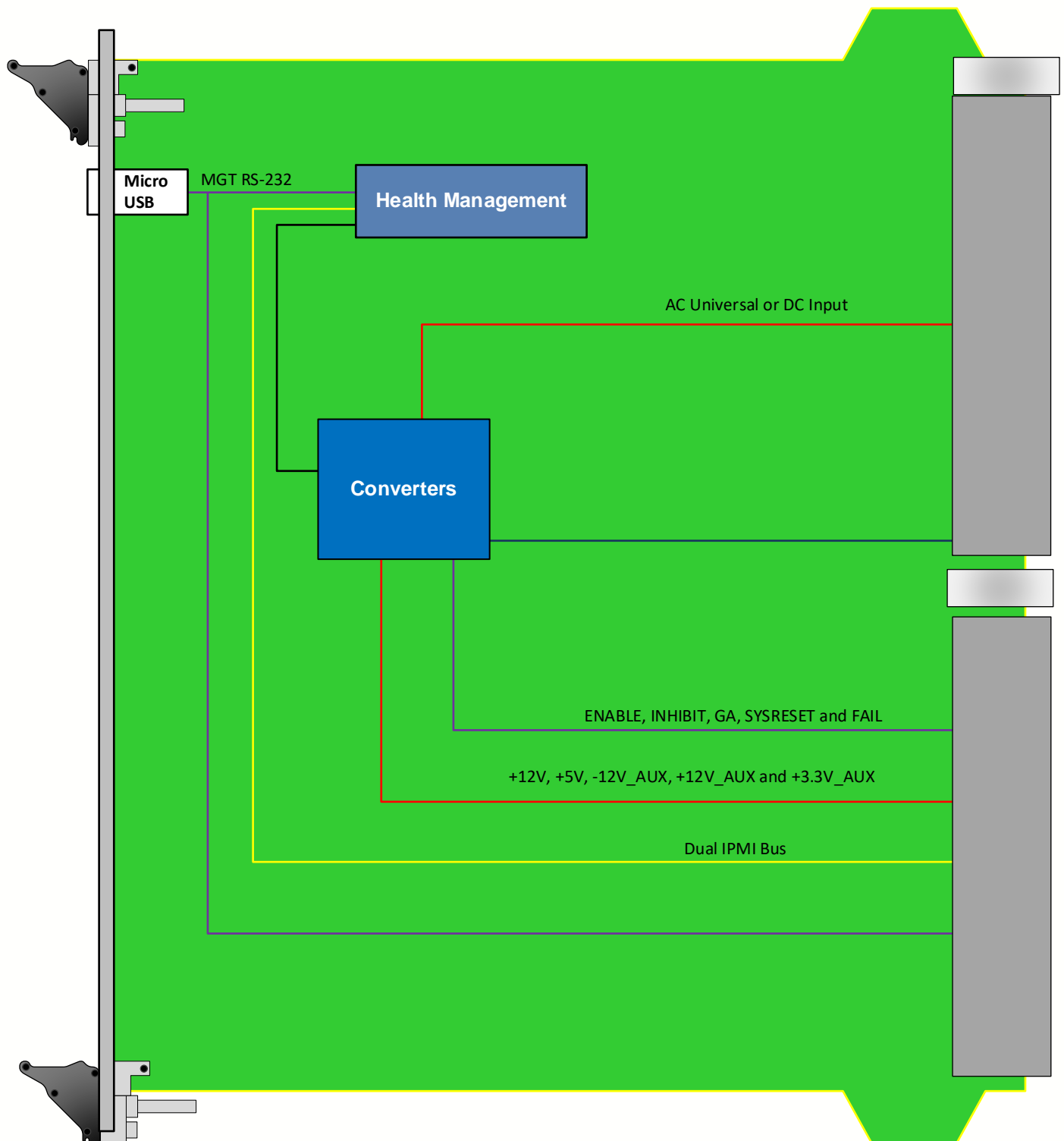


Figure 4: VPX026 Functional Block Diagram

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

VPX026-000-000-GHJ

| | | |
|--|--|--|
| | | G = Applicable Slot Profile |
| | | 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:

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

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, Wenhua 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

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