2U VPX Computer System

Facts

- Conduction-cooled
- Enclosure dimensions: 2U, 84HP, 325mm depth
- Best performance most compact VPX System
- SOSA-aligned
- Perfect functionable design
- Customized integration
- Different processor and FPGA configurations available

This 2U VPX system is intended to be the european alternative to the C4ISR system architecture. It is designed to pass MIL-Std testing and is intended for use under severe environmental conditions. The system operates conduction-cooled in the temp. range from -45°C to +85°C. The chassis is waterproof and dustproof according to IP67. The following can be used as a backplane: 3x3 slot open VPX full mesh or 1x 9 slot SOSA aligned VPX incl. switch slot. The system requires an internal DC power supply and allows a maximum power dissipation of 350W.

All interfaces are available via a MIL 38999 circular connector in the Front and connected separately via a corresponding junction cable and or fiber.
The chassis surface is colorless passivated on the inside and powder-coated or anodized on the outside. The color may be selected from different RAL tones.

Applications:

- SDR communication,
- Navigation and precision timing,
- Mission computing,
- Ad-hoc- communication and networking,
- Prepared for ground vehicles and naval units.

Contact Details
+49-5139-9980-0
info@powerbridge.de
www.powerbridge.de

powerBridge Computer

System Configurations

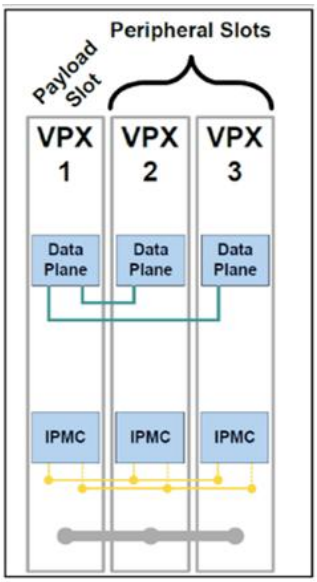
Backplane	3x 3-slot 1 x FP star BKP3-CEN03-15.2.9.4, or custom configuration, like full mesh: with or without expansion plane, with storage connection, with optical connectors	1x 7-slot or 1x 9-slot, SOSA-aligned, profile SBC slot: SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16, profile Switch slot: SLT3-SWH-6F1U7U-14.4.14, profile Radial clock slot: SLT3x-TIM-4S16S1U2U1H-14. 9.1, profile Payload slots: SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11

Slot numbers are logical, physical slot numbers may be different

Data Plane (FP)

Management Plane (IPMB)

Utility Plane including Power



Topology of BKP3-CEN03-15.2.9n

Optical/ Coaxial Connectors

Expansion Plane (FP)

Real Time Data Plane (FP)

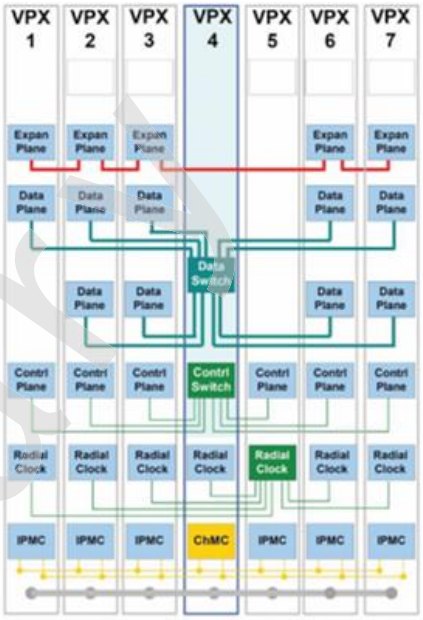
Non-Real Time Data Plane (UTP)

Control Plane (UTP)

Radial Clocks

Management Plane (IPMB)

Utility Plane includes Power



Power Supply

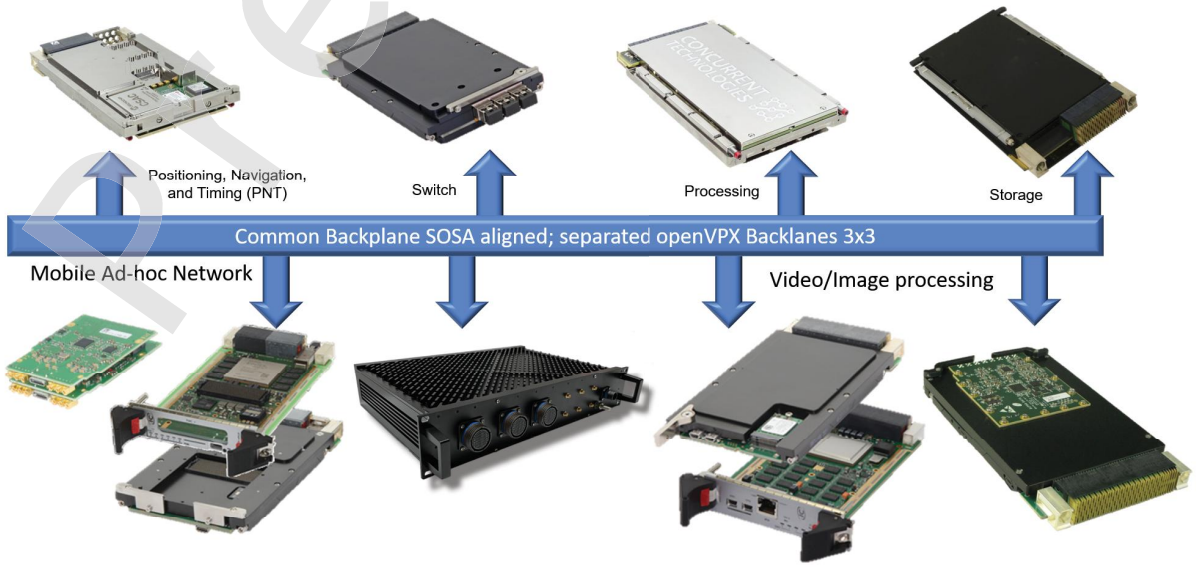
Power input	15 ... 40 V DC wide range with reverse polarity protection and 4 pin pluggable connector with latch (GND, V-, V+)
Power output	6 DC outputs: 12V/15A, 3.3V/20A, 5V/40A, 12V_AUX/1A, -12V_AUX/1A, 3.3V_AUX/4A
Power consumption	350 W
Form factor	3U, VITA 62 compliant

Environmental

Operating temperature range	-40 ... +85 °C, Stanag 4370 AECTP 300 ff
Vibration	Stanag 4370 AECTP 400 ff
Operating shock	Stanag 4370 AECTP 400 ff
Humidity	Stanag 4370 AECTP 300 ff
EMI/RFI	Stanag 4370 AECTP 300 ff

Mechanical

Form factor	2U, 84HP, 325mm depth
Weight	6 kg



Contact Details

powerBridge Computer
Ehlbeek 15A
30938 Burgwedel

+49-5139-9980-0
info@powerbridge.de
www.powerbridge.de