

6U 4-Slot OpenVPX Backplane

BKP6-DIS04-1 1.2.AN-n



Description

This 6U OpenVPX backplane features 4-slots, a dual fat pipe data plane supporting 10Gbps data rates and a dual fat pipe expansion plane supporting 8 Gbps data rates. Optional RTM connectors (rear transition modules) for rear I/O support.

Elma offers a variety of backplane topologies to support a wide range of system interconnect requirements. The backplane is designed in accordance with ANSI-VITA 46.0 and ANSI-VITA 67.0-2017 requirements and uses existing VPX Slot Profiles.

Features

- Compliant to ANSI/VITA 46.0-2013
- 1.0" slot pitch
- Dual star routing topology
- High speed MultiGig RT 2 connectors
- Rugged Eurocard form factor in 6U height
- Provides built in ESD ground protection in every slot

Board Specifications

- 22 layer stripline design
- 1 oz. power and ground layers
- PCB Megtron 6
- PCB 0.212" thick

Mechanical Specifications

- 6U height
- 4 slots
- 10.317" tall X 4.80" wide

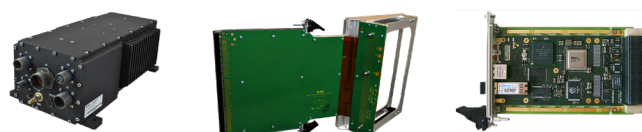
Slot Profiles

- Slot 1 - 4: SLT6-PAY-4F1Q2U2T-10.2.1

Related Products and Applications

Highly integrated applications such as:

- Integrated display processing, mission management and navigational control for avionics systems
- Industrial monitoring, medical equipment, and night-vision systems requiring enhanced graphics capabilities
- Shipboard systems for target tracking and high definition displays
- Applications requiring a mix of I/O options, high compute density and enhanced graphics



- Load boards convection or conduction cooled
- Rear Transition Modules for I/O
- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- Rackmount, desktop, and ATR chassis platforms
- Ruggedization programs

VPX

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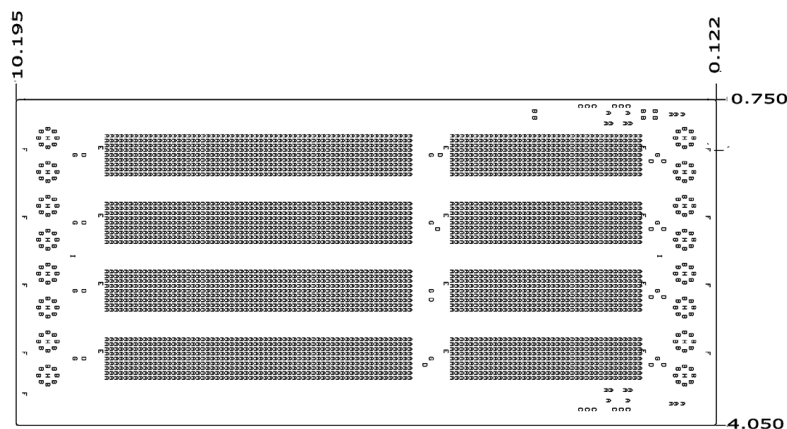


VPX

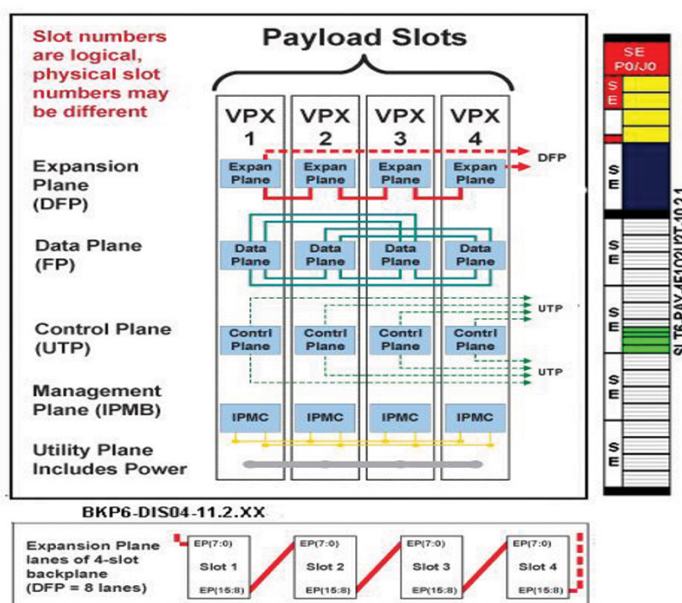


Backplanes

Line Drawing



Backplane Topology



Order Information

Height	Total Slots	Description	Profile Number	Part Number
6U	4	VPX modified mesh data plane channel Gbaud rate up to 10, DFP expansion plane Gbaud rate up to 8	BKP6-DIS04-11.2.AN-5	1OVX604GZM-1X01

Please contact our sales for more details.

China: +86 21 5866 5908
France: +33 437 06 21 10

Germany: +49 7231 97 34 0
Israel: +972 3 930 50 25

Singapore: +65 6479 8552
Switzerland: +41 44 933 41 11

United Kingdom: +44 1234 838 822
United States: +1 510 656 3400

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