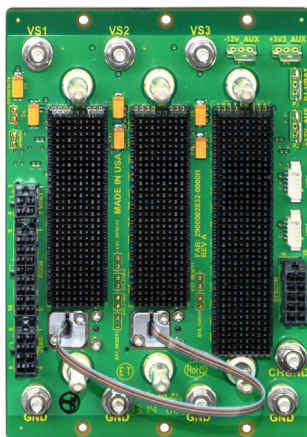


3U OpenVPX Backplane

BKP3-CEN03-15.3.5-n with Optical Slots



Description

Elma's OpenVPX backplanes are designed to meet VITA 65 and VITA 46. This 3U 3-slot VPX backplane has two slots dedicated to backplane optical I/O. Each of the optical slots has its own dedicated Fat Pipe connection to slot 1.

Features

- Compliant to VITA 65 and VITA 46
- Uses the rugged 3U Eurocard form factor
- Standard with the High Speed EPT Velox connector (VITA 60 and VITA 63 connectors upon request)
- VITA 66.4 optical module accepts MT (MPO) fiber ferrules
- Provides built in ESD ground protection in every slot
- Accepts EPT Velox compatible cables with available accessories
- Available optical ferrules currently support 12 or 24 discrete fibers or equivalent fiber ribbons
- Data Planes support 6.25 GBaud per lane or 25 GBaud per Fat Pipe
- Backplane supports either VITA 66.4 or VITA 67 modules

Board Specifications

- 14 layers
- 1 oz. copper power and ground
- 0.212" thick FR-4 PCB or equivalent

Mechanical Specifications

- 5.07" (95.28mm) x 3.75" (128.70mm)

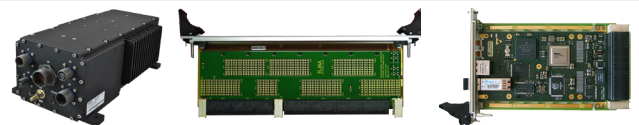
OpenVPX compatibility:

- Signal routing per BKP3-CEN03-15.3.5-0
- Slot 1 according to SLT3-PAY-2F2U-14.2.3
- Slots 2, 3 per SLT3-PAY-2F2U1E-14.6.10

Applications and Related Products

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

3U OpenVPX Backplane

BKP3-CEN03-15.3.5-n with Optical Slots

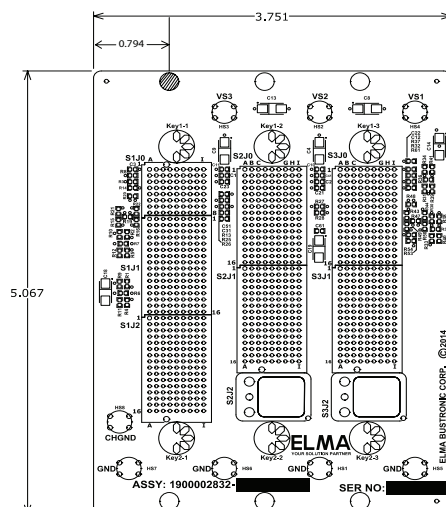


VPX

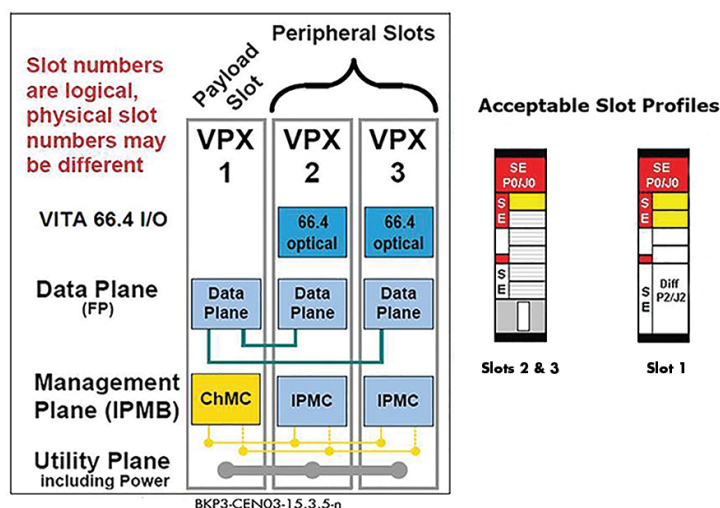


Backplanes

Line Drawing



Backplane Topology



Order Information

Height	Total Slots	Description	Profile Number	Part Number
3U	3	Single star FP data plane with two V66.4 optical slot interfaces	BKP3-CEN03-15.3.5-3	1OVX303PZ6-1X11R

* Final profile is being finalized by the VITA 65 Working Group.

Note: Ships standard with RTM connectors and mounting features to support EPT Velox cable assemblies. Optical cable assemblies to be ordered separately. Available fitted with VITA 60 and 63 connectors upon request.

Please contact our sales for more details.

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