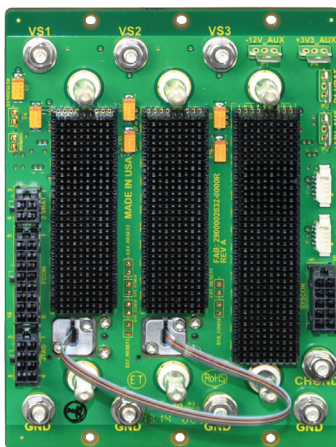


# 3U OpenVPX Backplane with VITA 66.4 Optical Slots



## Description

Elma's Bustronic brand of 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 MultiGig™ connector (VITA 60 and VITA 63 connectors upon request)
- Preliminary VITA 66.4 optical module accepts MT (MPO) fiber ferrules
- Provides built in ESD ground protection in every slot
- Accepts MultiGig™ 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

## 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)

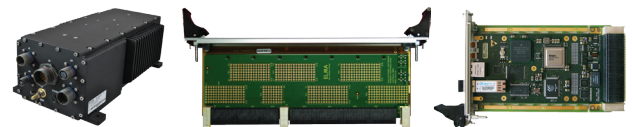
## OpenVPX compatibility:

- Signal routing per BKP3-CEN03-15.2.9-3
- Slot 1 according to SLT3-PAY-2F-14.2.7
- Slots 2, 3 per SLT3-PAY-1F1T2U1V64.4-14.6.X-n

## 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**

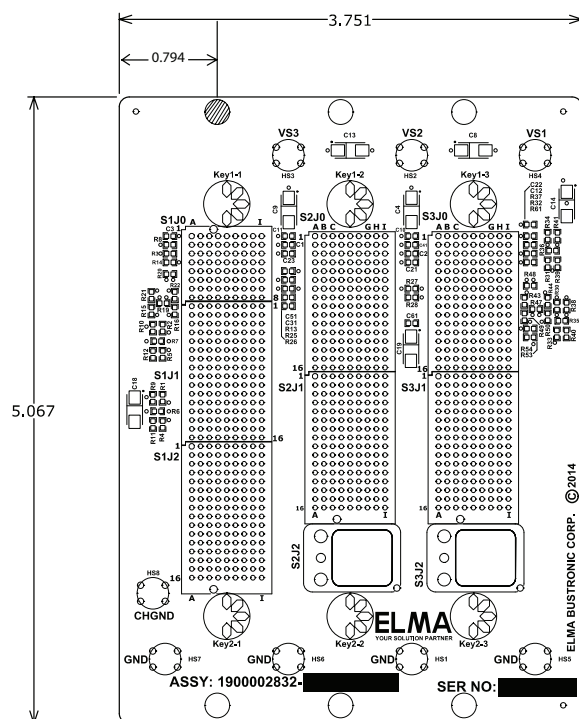


VPX



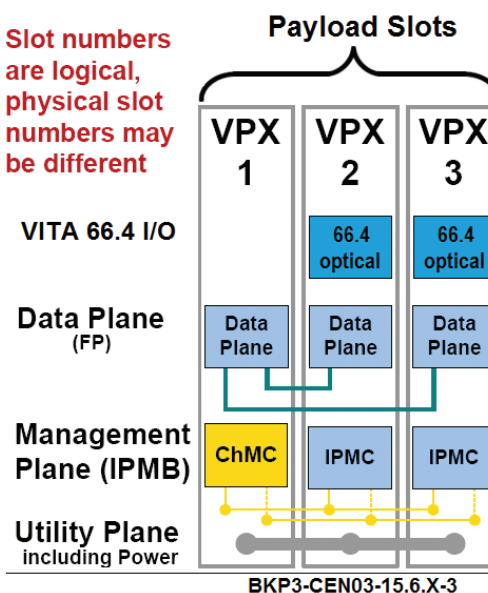
## Backplanes

## Line Drawing



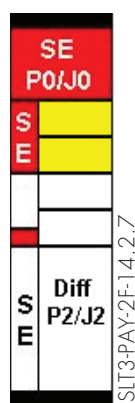
## Backplane Topology

Slot numbers are logical, physical slot numbers may be different

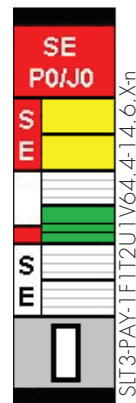


**BKP3-CEN03-15.6.X-3**

## Slot 1



## Slot 2, 3



## 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-CEN03-15.6.X-3* | 1OVX303PZ3-1X11R |

\* Final profile is being finalized by the VITA 65 Working Group. Signals are routed per VITA 65 Backplane Profile BKP3-CEN03-15.2.9-3

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