

## Description

Elma's VPX power and ground development backplanes are simple and cost-effective development tools to develop an OpenVPX-based system. Power for 3.3V, 5V and 12V are included. The rear connectors are all fully loaded. For use with Elma's slot to slot or slot to I/O bulkhead cable products during system development.

## Features

- Compliant to the latest VITA 46 / 65 specifications
- Versions available support VITA 66 (fiber optic) and VITA 67 (RF) modules
- Power and ground only backplane for simple and low-cost development
- 3.3V, 5V, and 12V power
- P1- P6 pins are user-defined
- Backplanes have the utility plane implemented in P0 and P1
- NVMRO, SYSRESET#, SYSCON# and maskable reset are supported

## Board Specifications

- Layer count varies by product
- 2 oz. copper power and ground
- PCB UL recognized 94V-0
- PCB FR-4 or equivalent
- PCB .212" thick

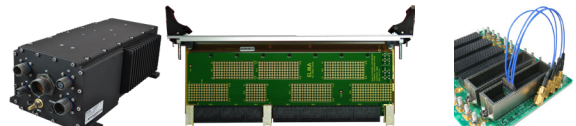
## Mechanical Specifications

- 3U, 6U and 7U heights (7U also supports 6U boards)
- 1-slot, 2-slot, 5-slot and 6-slot (3U version)
- 2-slot and 7-slot (6U version)
- 1-slot, 4-slot and 6-slot (7U version)

## Applications and Related Products

OpenVPX backplanes in embedded computing systems enable high speed data communication in critical defense and industrial applications including but not limited to:

- Mission control
- Secure communications
- Surveillance
- Data and image processing
- Weapons control
- Target tracking and display
- Navigational control
- Threat detection
- Process monitoring
- Environmental monitoring



- Convection or conduction cooled load boards
- Rear Transition Modules for rear I/O
- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- Rackmount, desktop, and ATR chassis platforms
- Backplane interconnect cabling

**VPX**

# VPX Power & Ground Backplanes



VPX



Backplanes

## Order Information

Height	Description	Part Number
3U	3U VPX 1-slot Power & Ground, RoHS	101VPX301P-1X31R
3U	3U VPX 1-slot Power & Ground 10Gbs pass through, RoHS	101VPX301P-9X21R
3U	3U VPX 5-slot Power & Ground, RoHS	101VPX305P-1X31R
3U	3U VPX 6-slot Power & Ground, RoHS	101VPX306P-1X31R
3U	3U VPX 1-slot Power & Ground, with VITA 67.2 connector	101V301P01-9001
3U	3U VPX 1-slot Power & Ground with VITA 66.4 installed J2A, RoHS	101V301P02-9001R
3U	3U VPX 1-slot Power & Ground with VITA 67.1 installed J2A	101V301P02-9002
3U	3U VPX 1-slot Power & Ground, with VITA 66.4 in J2, RoHS	101V301P03-9001R
3U	3U VPX 1-slot Power & Ground, with VITA 67.1 in J2, RoHS	101V301P03-9002R
3U	3U VPX 1-slot Power & Ground with VITA 66.4 in J2. Multigig RT-2R connectors	101V301P03-9004
3U	3U VPX 1-slot Power & Ground with VITA 67.3C cutout in J2. VITA 67.3C connector not installed	101V301P04-9002
3U	3U VPX 1 - slot Power and Ground with VITA 67.3C cutout in J2. The VITA 67.3D connector installed is TE 2828775-1	101V301P04-9003
3U	3U VPX 1-slot Power & Ground with VITA 67.3D in J2. The VITA 67.3D connector installed is SV Microwave SF9321-60059	101V301P04-9005
3U	3U VPX 1-slot Power & Ground with VITA 67.3C cutout in J, 10Gbs pass through, VITA 67.3C connector not installed. RoHS	101V301P04-9X12R
3U	3U VPX 1-slot Power & Ground with VITA 67.3D in J2. The VITA 67.3D connector not installed, RoHS	101V301P05-9002R
3U	3U VPX 1-slot Power & Ground with VITA 67.3D in J2. The VITA 67.3D connector installed is TE 2313376-1, RoHS	101V301P05-9003R
6U	6U VPX 2-slot Test Backplane (with MultiGig cabling solutions), RoHS	1900002311-0000R
6U	6U VPX 7-slot power & ground, RoHS	101VPX607P-1X40R
7U	7U VPX 1-slot power & ground, RoHS	101VPX701P-1X40R
7U	7U VPX 1-slot power & ground VITA67 with 1 RF 8 position in J3, RoHS	1900002558-9001R
7U	7U VPX 4-slot power & ground, RoHS	101VPX704P-1X40R
7U	7U VPX 6-slot power & ground, RoHS	101VPX706P-1X40R

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