

VPX Power and Ground Only

6U & 7U VPX BACKPLANES WITH APERTURES

DESCRIPTION

Elma's 6U VPX power and ground only backplanes provide a cost-effective way to design and test cards and systems using the VPX architecture, CMOSS and HOST compliant hardware, aligned to the SOSA Technical Standard, or for custom designs.

The only assigned pins on these backplanes are for 3.3V, 5V and 12V power, and both ground and utility planes are defined. The remaining pins are all user-defined. The rear connectors are all fully populated, and can be accessed with Elma's slot-to-slot or slot-to-I/O bulkhead cable assemblies for system development.

Features

- Compliant to VITA 46 mechanical specifications
- 3.3V, 5V, 12V, 3.3V_AUX, +12V_AUX, and -12V_AUX power
- PO-P6 pins are user-defined
- NVMRO, SYSRESET#, SYSCON# and maskable reset are supported

Board specifications

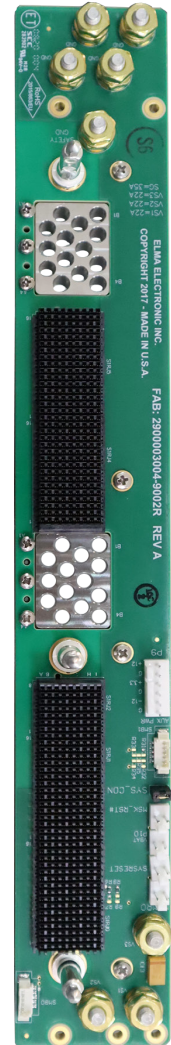
- 10 layers
- 2 oz. copper power and ground
- PCB UL recognized 94V-0
- PCB FR-4 or equivalent
- PCB .212" thick

Mechanical specifications

- 6U and 7U heights
- 7U backplanes available in 1, or 6 slots



FRONT VIEW



REAR VIEW

VPX Power and Ground Only

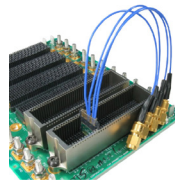
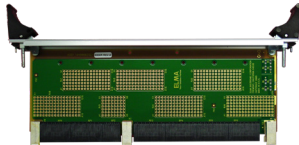
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APPLICATIONS

Open VPX 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

RELATED PRODUCTS



- › Convection or conduction cooled load boards
- › Rear Transition Modules for rear I/O
- › Intel & Freescale Single Board Computers
- › Rackmount, desktop, and ATR chassis platforms
- › Backplane interconnect cabling

ORDER INFORMATION

Model #	Size	Total # Slots	Aperture	Supports VITA 6X.x module	VITA 6x module installed?	Details	RoHS	Max data rate (Gbps)
101V701P01-9X13	7U	1	H	3 x 67.3C	no	Apertures in J3, J5, and J6	No	25
101V701P01-9X13R	7U	1	H	3 x 67.3C	no	Apertures in J3, J5, and J6	Yes	25
101V701P08-9X12R	7U	1	E	2 x 66.4	no	Apertures in J6A & J6B	Yes	10
1900003004-9002	7U	1	H	2 x 67.3C	n/a	Apertures in J3 and J6	No	10
1900002558-9001R	7U	6	H	1 X 67.3C	n/a	Aperture in J3	No	3.125

Contact Elma for different VITA 66 or 67 aperture configurations.

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